



CASE STUDY: TITANIUM SECURITY ARENA

UniFi Takes High-Performance Wireless to New Heights

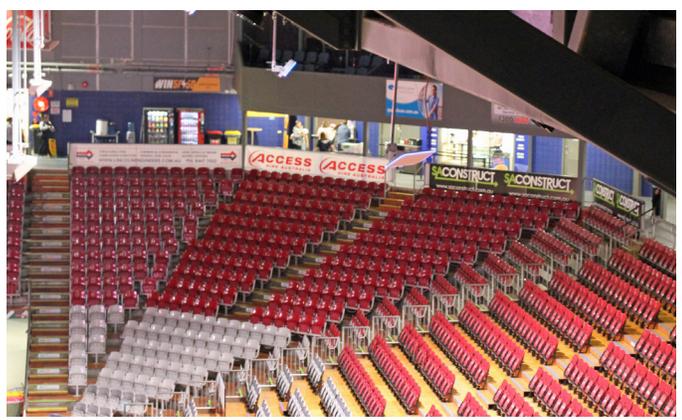
UniFi® delivers 802.11ac Wi-Fi to business users, event attendees, and POS terminals

Reliable wireless coverage provided by UniFi BaseStation XG throughout arena

UniFi Controller runs on UniFi Application Server with 10G connections

Founded in 1989, ASP Computer Services is a family-owned business that provides a variety of IT services including wireless and wired network design, deployment, monitoring; VoIP; cloud hosting; onsite and remote support; and DNS. Located in Adelaide, South Australia, the company serves small-to-medium-sized businesses with 20 to 200 seats in different industries, such as engineering, retail, arts, real estate, healthcare, hospitality, and sports.

Titanium Security Arena is a multipurpose indoor arena with 8,000 seats in Findon, South Australia. Primarily a sports facility focused on basketball, it can host other events, including concerts, corporate meetings, and training sessions. Titanium Security Arena also offers office space for businesses.



UniFi BaseStation XG units installed on custom poles

TECHNICAL REQUIREMENTS

The previous wireless network at Titanium Security Arena could not keep up with wireless demands and had deadspots.

Corporate Wi-Fi lacked coverage in certain areas and was not centrally managed. There was no EFTPOS (Electronic Funds Transfer at Point Of Sale) or POS Wi-Fi – a huge gap as there was hardly any cellular (3G/4G) reception in the arena. For crowds of over 4,000, Wi-Fi coverage was insufficient; attendees could not stream video or browse the internet.

Titanium Security Arena needed to fulfill the following needs:

- Daily work applications for three separate businesses
- EFPOS/POS support for arena, bar, and kiosk terminals
- Free Wi-Fi for event attendees

“Ubiquiti revolutionized [our] catering offerings by allowing us to process our transactions instantly rather than [using] 3G, which was taking anywhere between 30 seconds to 3 minutes; this meant an increase of \$35,000 per game or 45%, which was extremely helpful. The quality of internet offering to our fans is also amazing delivering on average a speed in excess of 30 Mbps, which is incredible.”

Guy Hedderwick, CEO, Arena Stadium Management and Titanium Security Arena



UNIFI DEPLOYMENT

HIGH-PERFORMANCE, RELIABLE WIRELESS

ASP specified UniFi Access Points (APs) to provide Wi-Fi coverage in a high-density environment and designed a wireless network to serve multiple purposes:

- Provide reliable access to internet and network resources throughout the arena
- Connect EFPOS/POS terminals for sales
- Maintain high-bandwidth Wi-Fi even when the arena is at capacity attendance

Model	Number	Purpose
UWB-XG	14	802.11ac Wave 2 4x4 MU-MIMO wireless coverage on three 5 GHz radios with dedicated security and beamforming antenna
UAP-AC-PRO	8	Dual-band 802.11ac 3x3 MIMO wireless coverage
UAP-AC-LR	1	Dual-band 802.11ac 3x3 MIMO wireless coverage for long-range deployment
UAS-XG	1	10G application server running UniFi Controller

Fourteen UniFi BaseStation XG devices are installed throughout the arena to provide free Wi-Fi to attendees and POS Wi-Fi to the EFPOS/POS terminals courtside and in the seating areas.



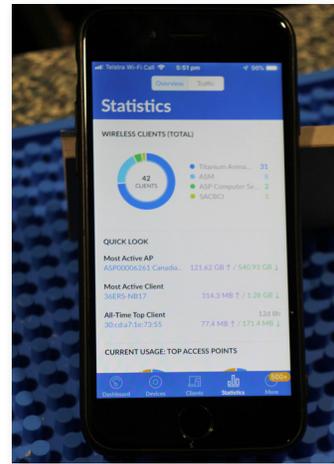
UniFi BaseStation XG facing seats

Eight UniFi AC Pro APs are mounted in the ceilings of the kiosk and bar areas, where they connect to the local EFPOS/POS terminals. The UniFi AC LR AP was carried over from the previous network and remained in place to provide long-range wireless.

“All previously existing issues are resolved. Corporate users have full access to internet and network resources. Patrons on game day get around 50/50 Mbps speeds on the free Wi-Fi regardless of their location in the stadium. Until this system was installed, it generally was impossible to have EFTPOS and bars/kiosks were cash only.”

Mark Stewart, Manager, ASP Computer Services

CENTRALIZED MANAGEMENT



Statistics > Traffic Statistics screen of UniFi app

At Titanium Security Arena, the UniFi Controller software runs on the UniFi Application Server. It manages and monitors the UniFi APs and wireless client traffic.

The software conducts device discovery, provisioning, and configuration of UniFi devices via a web browser or the UniFi mobile app.

“[It was a] simple configuration using the Controller. We had no issues configuring the separate SSIDs for the isolated networks across different VLANs.”

Mark Stewart, Manager, ASP Computer Services

FUTURE PLANS

ASP is considering the UniFi nanoHD AP for new network designs and continues to use the UniFi Controller for centralized site management.

“[With] the UniFi Controller... we can easily and efficiently onboard new clients and effectively manage our existing client base.”

Mark Stewart, Manager, ASP Computer Services



UniFi BaseStation XG hanging below the rafters

Visit ASP Computer Services at www.aspcomputers.com.au
Visit Titanium Security Arena at www.titaniumarena.com.au
For more case studies, visit www.ui.com/customers



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