

ARUBA NETWORKS | CLEARPASS USE CASE STUDY

UNIVERSITY OF SYDNEY



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SYDNEY

Founded in 1850, the University of Sydney is regarded as one of the most prestigious universities in Australia and is ranked as the world's 37th most reputable university by QS World University Rankings 2014/15.

The University's vision is to continue to build a campus environment that meets the recreational, cultural, research, and educational needs of those who work, study and live in the surrounding community. It is this vision that drives its ongoing investment into new and improved technology infrastructure that helps the institution to attract the brightest people to the University.

As part of this vision, the University of Sydney identified the opportunity to ensure its wireless network infrastructure met the changing needs of its staff and students, allowing them to deliver excellence in teaching and research far into the future.

"With the emergence of portable devices such as smartphones and tablets, the wireless network has become a critical part of the education offering we deliver at the University of Sydney," said Srdjan Luzajic, Acting Manager, Infrastructure and Operations Information and Communications Technology at the University of Sydney. "With an increasing number of users and devices on our network, the need to streamline authentication became a necessity more than a simple convenience."

The University of Sydney has a wide user base, consisting of students, staff, teachers, lecturers, guest lecturers, and general administration employees. In addition, it hosts between 200-300 guests everyday. With over 60,000 devices accessing the wireless network on any given day, the institution needed a simple and effective authentication

BENEFITS:

- Leverages Aruba Networks ClearPass with a third-party network provider for a seamless Wi-Fi access experience among students, staff, teachers, administration staff, lecturers and guest lecturers
- Utilises ClearPass Guest with sponsored guest access, empowering staff and students to self-configure and secure their mobile devices to the Wi-Fi network, without involving IT
- Provides IT with seamless management of 35,000 unique Wi-Fi users authenticating up to 60,000 devices to the network everyday
- The robust solution manages a high capacity of Wi-Fi users, handling on average 400,000 authentications each day
- Embraces role and device-based network access control, allowing IT to easily provide staff and students with unrestricted, unlimited access to the Wi-Fi network, while guests are given Internet-only access

system that would run in conjunction with its existing wireless hardware seamlessly across its 13 remote sites.

Prior to reviewing the authentication process, the University of Sydney used a Virtual Private Network to authenticate users. However, this was proving cumbersome, limited access to certain parts of the network and had a negative flow on effect for staff and students.

CLEARPASS: AUTHENTICATION MADE EASY

In 2013, the University of Sydney engaged Aruba Networks to roll out its ClearPass solution, to centralise the wireless process.

With ClearPass, the IT department has the ability to centrally manage network policies, automatically configure devices and distribute security certificates, and even share information with third party solutions through a single pane of glass, without changing its current infrastructure.

ClearPass also allows the University to configure devices without IT involvement, as staff and students are given the ability to self-configure and secure their own mobile devices.

"ClearPass is simple for staff and students to use and gives our team a streamlined process for user authentication, which did not previously exist," stated Luzajic.

Furthermore, the roll out of ClearPass has allowed the University to cater to the needs of its ever-growing number of visitors.

"With hundreds of visitors hosted across a number of our campuses daily, we required an integrated solution that automated and simplified the provisioning of network access for guests, but also provided expansive security features that kept enterprise traffic separate from guest traffic," continued Luzajic. "ClearPass Guest capabilities make it easy and efficient for our team to provide staff and students with unrestricted, unlimited access to the network and guests access to the Internet only."

SEAMLESS INTEGRATION WITH AN EXISTING WIRELESS NETWORK

Since the implementation of Aruba Network's ClearPass solution, Luzajic and his IT team have been delighted with the transformation.

"From the moment we deployed Aruba's ClearPass solution, we could shift our focus onto other aspects of the University's technology requirements, relying on ClearPass to get the job done," said Luzajic.

With an intricate wireless network, ClearPass was adapted to ensure the University was getting the most out of the solution. On a normal university day the University has approximately 28,000 concurrent users, 60,000 individual users and a staggering 400,000 authentications.

"ClearPass provided us with a cost-effective, secure solution that allowed us to continue using our current wireless infrastructure. It has proven to be a superior way to manage and authenticate our increasingly mobile hungry staff and students."

ABOUT ARUBA NETWORKS

Aruba Networks is a leading provider of next-generation network access solutions for the mobile enterprise. The company designs and delivers Mobility-Defined Networks that empower IT departments and #GenMobile, a new generation of tech-savvy users who rely on their mobile devices for every aspect of work and personal communication. To create a mobility experience that #GenMobile and IT can rely upon, Aruba Mobility-Defined Networks™ automate infrastructure-wide performance optimization and trigger security actions that used to require manual IT intervention. The results are dramatically improved productivity and lower operational costs.

Listed on the NASDAQ and Russell 2000® Index, Aruba is based in Sunnyvale, California, and has operations throughout the Americas, Europe, Middle East, Africa and Asia Pacific regions. To learn more, visit Aruba at <http://www.arubanetworks.com>. For real-time news updates follow Aruba on [Twitter](#) and [Facebook](#), and for the latest technical discussions on mobility and Aruba products visit Airheads Social at: <http://community.arubanetworks.com>