



Case Study

Market: Education

Deal implemented: 2013

Region : Colombia

Number of users: 51,000

Company: [University of Antioquia](#)

Founded in 1803, the University of Antioquia (UdeA) in Medellín is the second largest public university in Colombia. Renowned as one of the country’s main research universities, it also hosts over 200 academic programs including 27 doctorate programs. It has one main campus and 12 regional campuses, with a total of 39,000 students.

Challenges

UdeA was receiving complaints about the quality and availability of the wired and wireless connectivity throughout the campuses.

The University also wanted to provide better quality access networks to support BYOD for staff and students, requiring an infrastructure upgrade to manage the growing demands on the system.

Finally, UdeA needed a scalable solution that stayed within a defined budget and that could cope with future growth and expansion.

Product and services

Alcatel-Lucent OmniSwitch® 10K Modular LAN Chassis

Alcatel-Lucent OmniSwitch® 6450 Stackable Gigabit Ethernet LAN Switch

Alcatel-Lucent OmniVista® 2500 Network Management System

Alcatel-Lucent OmniAccess® WLAN Controllers

Alcatel-Lucent OmniAccess® WLAN Access Points

Alcatel-Lucent ClearPass Policy Manager

What made the difference?

The university previously deployed Alcatel-Lucent Enterprise business telephony solutions that had met their high expectations. Moreover, the proposed Unified Access solution allowed the university to build on the existing infrastructure and improve the general performance of the network.

Benefits

Technical

The wired and wireless network now provides the high capacity and stability needed for effective connections throughout the university campuses. The network performance for the high-density environment is optimal, with connectivity for up to 200 student and staff devices per access point, and the possibility of adding modules to allow for future expansion.

Financial

By using a single vendor for its networking and telephony solutions, UdeA benefits from a simplified and converged solution.

New faster connectivity enables the university to cost effectively implement administrative procedures that support core activities, such as course development and research. The network solution is scalable, giving UdeA greater flexibility to keep growing and add value to the university.

User Experience

Students and staff are satisfied with the wireless service. They can easily connect their mobile devices anywhere on campus and enjoy high quality connectivity.

The new infrastructure supports innovative teaching and learning methods, positively impacting education and campus life for students and faculty.

 “It is important for us to have technology that allows for our capacity growth planning, in line with the projected demand on all of our infrastructure.”

Carlos Mario Duque, Director Institutional Development, University of Antioquia