

CommScope evolves Escuela Americana network with high-quality solutions to improve services to student community



SECTOR
Education

CLIENT
Escuela Americana

INTEGRATOR
Tecnasa

COUNTRY
El Salvador

Objective: Provide state-of-the-art infrastructure to enable present and future connectivity for the academic community.

The digital age is always evolving—and, for Escuela Americana, staying on the cutting edge of technology is a requirement rather than a necessity, as this allows them to fulfill their commitment to the holistic education of the country's children and youth.

With this in mind, and concerned about improving the quality of its service, this educational institution was looking to evolve its WLAN network to one that

would allow it to have an infrastructure ready to meet the current and future connectivity challenges for its academic community.

To achieve this goal, Escuela Americana, through integration partner Tecnasa, chose CommScope's structured cabling solution, which is not only of excellent quality and a leader in the industry, but also met many characteristics the client was looking for to carry out this project, by allowing them to leave the door open to continue evolving the network in the future.

"In the next few years, we will be able to see technological growth at Escuela Americana. Escuela Americana plans to integrate a paging system and increase the number of cameras to safeguard the integrity and security of the entire academic and student community."

Balmore Montaña
IT Manager for Escuela Americana El Salvador



CommScope solutions

The first step toward a more powerful WLAN network was the design and implementation of a new data center with a fiber-optic backbone of the highest quality, capable of reaching the high browsing speeds required by today's educational centers.

In this way, Tecnasa implemented the solution of structured cabling in copper, Category 6A F/UTP, as well as CommScope's singlemode fiber, which is the ideal solution to meet the specific needs of Escuela Americana due to the number of links and extension of the campus. Therefore, Tecnasa found in CommScope an excellent technological ally that provides support whenever needed through platforms, tools and innovative solutions—allowing it to provide performance, efficiency and reliability in all its projects.

"At Tecnasa we develop a comprehensive project to address all customer concerns, by integrating premium brands such as CommScope that allow us to guarantee the best results," says Alex Gonzalez Lovo, data center and cabling specialist, Tecnasa.

The infrastructure implemented for Escuela Americana includes:

- **33 IDFs implemented throughout the campus**
- **Over 83,500 meters of CS44R BLU Category 6A F/UTP cable**
- **3,200 shielded SLX Category 6A jacks**
- **Over 18,800 meters of TeraSPEED® singlemode fiber-optic cable**
- **15 sliding fiber trays 1RU**
- **CommScope's 25-year extended warranty on all deployed infrastructure**

Main challenge

This project began in mid-2019, with arduous nightly work to avoid network intermittencies during academic activities at Escuela Americana, and migration work that had to be done individually to keep the wireless network working properly at the school throughout the process.

"CommScope and Tecnasa formed the ideal team to get this project implemented. Thanks to this, in the month of December 2019, the data center was finished with a complete singlemode fiber backbone, the core switch, and the 33 IDFs implemented with their respective optical fiber ready for migration, which would not have been possible without the active support of the Escuela Americana team," added Alex González Lovo.

With this deployment, Tecnasa overcame all the challenges presented, and successfully evolved the entire network infrastructure at Escuela Americana—from its data center to the copper cabling—with CommScope's support.

Facing the challenges of the new normality

Today, Escuela Americana has an infrastructure that allows it to remain at the forefront with state-of-the-art technology.

More than 500 faculty and administrators have checked out the connectivity improvements within the campus, and students have begun to enjoy the improved service this school year.



The new technological infrastructure of Escuela Americana has added to the value it offers its academic community, including new services such as sports and student events via streaming. This is something that seemed impossible before, given that

the bandwidth was not sufficient, and the network showed saturations; endorsing with this its support to sports and recreational activities, an important feature of the institution.

In this way, the new infrastructure opens the doors to new distance education systems where various academic planning courses can be taught virtually, with bandwidth that is extremely agile and easy to control from its facilities, in addition to allowing, in the future, classes to be resumed from any part of the campus without interruptions.

“At CommScope we are ready for future challenges with solutions that deliver better digital learning, providing more reliable, simple and adaptable networks for the connectivity of any educational institution. Seeing the work we have done as a team from the beginning of the project until today brings us unmatched satisfaction,” says Johnny Vega, partner account manager for CommScope, project leader.

ABOUT COMMScope

CommScope (NASDAQ: COMM) is pushing the boundaries of technology to create the world’s most advanced wired and wireless networks. Our global team of employees, innovators and technologists empowers customers to anticipate what’s next and invent what’s possible. Find out more at <http://www.commscope.com/>

ABOUT TECNASA

More than 45 years ago, Eng. Miguel A. Aued S. founded TECNASA on a culture of service. His vision of offering the most innovative technology solutions, with a high-quality service, is still present in everything they do day by day.

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