



Colombian Army Simplifies Deployment of IP Cameras Using NVT Phybridge Ethernet over Coax Technology

Colombian Army Deploys IP CCTV Surveillance System for It's New Aviation Logistics Center

In early 2017, the Colombian Government finished construction on its state-of-the-art Army Aviation Logistics Center (Spanish acronym, CLAVE). Designed and built by the U.S Army Corps of Engineers, CLAVE is an over 9,000 square meter facility designed to provide support for the transportation, storage, distribution and security of the Colombian Army's aeronautical equipment. The implementation of a high-level security system was required to comply with international standards for aeronautical logistical activities, which included deploying a comprehensive IP CCTV surveillance system of over 100 cameras to monitor the entire facility and its surroundings.



Challenge

The government agency needed to implement an IP CCTV system utilizing the Coaxial wiring in their new facility. However, the customer struggled with extending PoE to support the new IP cameras in all areas of the building. The 328ft (100m) reach limitations of standard PoE switches meant that the agency would need to install multiple IDF closets, which would be extremely costly and increase network complexity. CLAVE was unsatisfied with the traditional approach to network design; turning to project partners to help find an innovative solution.

Solution

Given the customer's infrastructure challenges, Colombian distributor SAC was confident in recommending the [NVT Phybridge CLEER24](#) managed switch solution. The award-winning CLEER24 enterprise-grade switch provides Ethernet and PoE+ over Coax with up to 6,000ft (1,830m) reach – 18 times farther than standard PoE switches. In just a few simple setup steps, the CLEER24 solution transformed the Coax cabling into the power-packed IP platform needed to support the new IP cameras while eliminating the need to install costly IDF closets. "In our case where distance limitations were a critical issue, NVT Phybridge made all the difference when other solutions on the market could not," said Paula Rosana Murillo, Business Development Coordinator at SAC. "Not only did the NVT Phybridge solution take the signal and transmit it through the Coax wiring to extremely far distances, but it also provided power to the IP camera."



Result

CLAVE was able to flawlessly deploy 109 IP cameras across the entire facility with virtually no disruption to operations. For the integrator, this was a professionally enriching experience. "NVT Phybridge, through its Colombian distributor SAC, facilitated access to technical training and support – ensuring the proper usage of these products and allowing the integrator to have greater confidence in the implementation of the technology,"

commented Oscar Triviño, Project Manager in charge of the CLAVE facility construction. “The implementation of the NVT Phybridge solution generated savings in wiring, electrical infrastructure, and manpower that was estimated at \$56,000 USD – with the connection of all cameras to the power source being achieved in the most effective way possible.” With CLEER24 technology, the customer was able to take full advantage of [Modern LAN principles](#), fast-track their modernization to IP, while eliminating risk and creating a robust IP platform that can be managed remotely. The solution eliminated all infrastructure replacements, service outages, security risks, network complexity, and no wasted budgets. “NVT Phybridge technology ensured the quality of all the video content. The agency is now able to take full advantage of the high-quality, state-of-the-art IP cameras used in the project; providing an incredibly satisfying result for the Colombian Army.”