

# CASE STUDY



## Colombian Army Saves Over \$50,000 Using the NVT Phybridge CLEER24 Switch Innovation

In early 2017, the Colombian Army 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. To comply with international standards for aeronautical logistical activities, the Colombian Government needed to implement a high-level security system. The facility required an IP surveillance system of over 100 cameras to monitor the entire facility and its surroundings.

**Challenge:** The Colombian Army had previously installed a Coax-based infrastructure to support an IP security system. However, the agency struggled to extend PoE to support the new IP cameras in all areas of the building. The 328ft (100m) reach limitation of standard PoE switches meant that they 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 EoC (Ethernet over Coax) managed switch. 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 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 cameras."

**Result:** The Colombian Army was able to quickly and easily deploy over 100 IP cameras throughout 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 to ensure the proper usage of these products. This allowed 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 NVT Phybridge CLEER24 solution generated savings of more than \$56,000 USD in wiring, electrical infrastructure, and manpower while connecting all cameras to the power source in the most effective way possible."



The Colombian Government used the CLEER24 switch to implement Modern LAN principles and fast-track the modernization to IP while eliminating risk and creating a robust IP platform. The solution removed all infrastructure barriers, service outages, security risks, network complexities, and wasted budgets. "The NVT Phybridge solution provides exceptional video quality. The Colombian Army is now able to take full advantage of its high-quality, state-of-the-art IP cameras and is incredibly satisfied with the project's results."



### **PoLRE®**

Single-Pair UTP up to  
1,200ft (365m)



### **CLEER**

Coax up to  
6,000ft (1,830m)



### **FLEX**

Multi-Pair UTP up to  
2,000ft (610m)

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