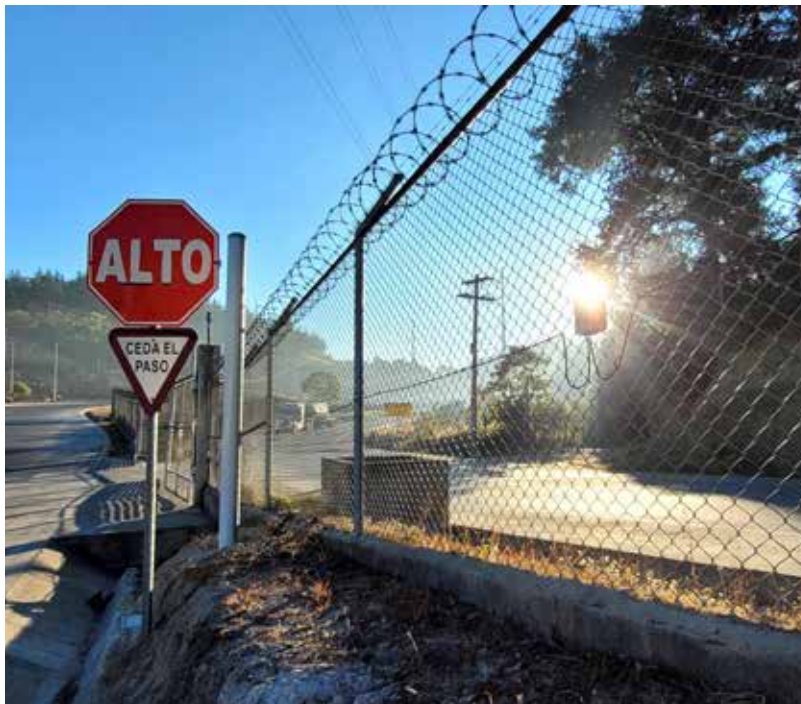


CIAS hardens the perimeter with systems as strong as cement



Cementos Progreso | Use Case

Background

Cementos Progreso, a leading cement producer in Guatemala, called CIAS Security when they required a reliable and efficient solution to secure the entire perimeter of its Planta San Gabriel facility. The site's five-kilometer (3.1 mile) boundary made traditional guarding methods costly and difficult to manage on a consistent basis.

While the guarding service provided adequate security to protect assets, it had several limitations:

- High Operational Cost over time for Security Guards Services
- Inconsistent monitoring across the entire fence line due to its long length
- Limited reliability due to human factors (fatigue, coverage gaps)



Requirement

The customer needed a system capable of ensuring continuous, accurate monitoring while reducing 100% dependency on physical guards.

))) Solution

Thanks to the ingenuity of Cementos Progreso's Electronic Security Team (Karla and Cesar), the SIOUX Pro 2 system was successfully configured in such a way that the signal is transmitted wirelessly to the Center for Operations and Control (COC) and an RF communication network. This was a new non-fiber optics-based approach for CIAS systems. This fully integrated perimeter protection system included:

- **5 km of SIOUX PRO2 fence-mounted intrusion detection system** (including 5 controllers) installed along the fence line
- **1 set of MICRO-RAY (4m/4rays)** for coverage of the site's entrance
- Centralized management via CIAS's **IB-SYSTEM-IP software**
- Full integration into the existing cameras and **VMS (Video Management System)**

))) Results

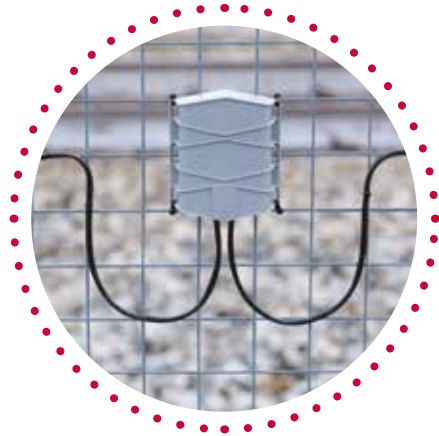
This integrated architecture enabled a seamless communication between all detection devices (regardless of manufacturer) and the control room, to ensure real-time monitoring for rapid response.

The implemented solution gives Cementos Progreso:

- Continuous and uniform protection across the entire 5 km perimeter
- High-precision intrusion detection by definition (cutting, climbing, tampering with the fence fabric; the type of intrusion is able to be differentiated)
- The capital expense in security systems led to a significant reduction in personnel expenses (shift cuts) which also delivered more precise intervention capability.
- Improved operational efficiency and long-term cost savings for the customer
- Centralized monitoring and response through the control room

The system successfully gives full perimeter security coverage and protection with accurate and reliable intrusion detection information with which control room operators can immediately identify and dispatch accordingly. This allows for very rapid and targeted intervention.

))) Technology deployed



SIOUX PRO2 MEMS

Fence-mounted intrusion detection system installed (on any type of fence fabric), for Cementos Progreso's first layer of external protection.



**MICRO-RAY
linear mW barrier**

For long narrow corridors that are very sensitive to weather conditions. Micro-ray from CIAS is microwave-based technology and an alternative to infrared (IR) beam technology.



))) A word from the customer

“ *This transition from 100% manpower-based security to an intelligent, technology-driven solution combined with manpower, has enhanced both security performance, and operational efficiency for Cementos Progreso.*

said Julio Secaida, Executive Director, Strategic Security, Cementos Progreso.

We are extremely pleased with how the CIAS system, integrated with our cameras and VMS, has given our control room staff a better ability to detect threats at the site. The technologies are working seamlessly together for a complete solution.

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))) A word from CIAS



“ *The team at Cementos Progreso was very innovative in their approach to develop a way in which the signal was transmitted wirelessly to the Control Center.*

said Fabio Perri, Sales Engineering, CIAS

We appreciated the knowledge and outside the box thinking in a non-fiber optics-based approach for CIAS systems.

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