

CAESB combines human security and electronics with Axis cameras.

From 2008 onwards, the Federal District Sanitation Company went from 35 to 57 electronic surveillance stations, substantially reducing costs.



Organization:
CAESB

Location:
Brasilia (DF), Brazil

Industry segment:
Critical infrastructure

Application:
Safety and security,
remote monitoring

Axis partners:
Brasilia Segurança,
Explora Tecnologia,
Anixter, CNT Brazil,
Nuuo Software

Mission

Responsible for supplying water to 97% of the population in the Federal District, in addition to providing sanitation services to 94% of the inhabitants of the region, CAESB serves 2.17 million people. Due to the need to monitor hundreds of operating points, reservoirs, and water and sewage systems and stations - many of them in remote locations, the company has undergone a process of integrating human surveillance with IP video surveillance technology.

Solution

Starting with a service contract for five years, the solution designed by the client, together with Brasilia Segurança, through technical advice from their partner Explora, was to implement the new system in the new points of access and corridors of the units selected, as well as in high-traffic areas.

PTZ dome cameras were positioned at points of high altitude and visibility. So far, approximately 200 network cameras have been installed, including models AXIS M1011, AXIS M1113, AXIS P1343, AXIS P3343-VE, AXIS P5532-E and AXIS Q6032-E.

Result

The project has fulfilled the mission of ensuring the security of CAESB's assets with lower costs and greater efficiency. In January 2008, the company had 35 electronic surveillance points; it currently has 57. "Security costs were too high because we have hundreds of properties. If you consider that each human-manned guard station costs, per month, about 13,000 Brazilian reais (while an automated station costs 4,000 reais), image the total volume of that," points out Cristiano Carvalho, the client's security manager, who has achieved monthly savings of approximately 300,000 reais.

"We have seen that human security presents difficulties, as a guard generally works alone, in a remote location, and that does not guarantee security – neither his own, nor that of the property. We're talking about units with difficult access in remote locations, where risks really do exist."

Cristiano Carvalho, CAESB manager of security.

Inside the business

For a technology provider, understanding the client's business can be a rather arduous job, especially in areas of high operational complexity, as is the case with utility companies. Cristiano Carvalho, as CAESB security manager, knows what that means. "Our company has many properties, treatment plants and operating units. Therefore, the challenge was to provide security for these posts, and especially, at a lower cost," says the executive, summarizing the major theme of the integration of human surveillance with IP technology.

As a service provider of CAESB, Brasilia Segurança, directed by Explora Consulting, of Brasilia (DF), has worked on the installation of equipment as well as maintenance and system management. All notices and videos arrive in real time at a central monitoring company via air links operated by Explora itself, with the authorization of Anatel (National Telecommunications Agency) to utilize the Multimedia Communication Service (MCS). The images are also monitored locally, in units equipped with electronic surveillance, using the NUUO Surveillance System software.

"The role of Brasilia Segurança and Explora's consulting has been fundamental, because both companies possess expertise in project development and solutions for specific demands, with extensive experience in the field of security and PMP certification. They have been very helpful in this process," says Carvalho.

Ongoing process

According to the security manager, CAESB has grown every year, with new operational units, and the posts opened have received electronic surveillance directly. That is, there is no increase in stations with human security. And for the next two or three years, the company must maintain the pace of the operation of capacity expansion.

"The integration of human and electronic security is still in progress. We are studying some posts, because there are some infrastructure issues to be addressed. To install a camera, you need, for example, to install fences at the site," explains Carvalho. In addition, the company works to strengthen partnerships with public safety agencies in the region, to bring police action closer to the locations where occurrences are registered.

About CAESB

CAESB is present in the 31 Administrative Regions of the Federal District, operating five water and 17 sewer systems. To do so, it maintains 28 fountainheads; 109 wells in operation; 127 reservoirs; 66 water treatment plants; 39 water pumping stations; 17 sewage treatment plants; 38 sewage pumping stations; 14 regional offices, 7 service offices and the Service Park within the Department of Industry and Supply (SIA). CAESB serves 2.17 million people, using 5 water and 17 sewer systems.

