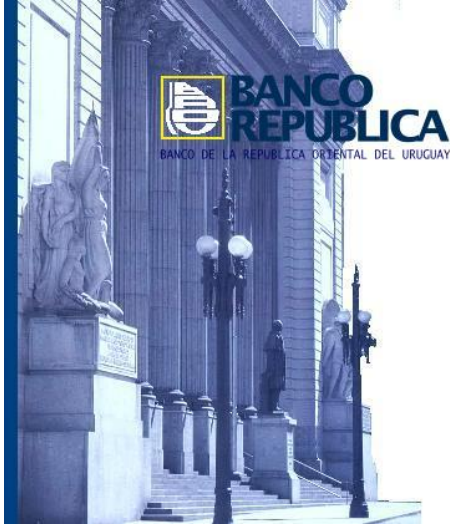


El Banco de la Republica Oriental del Uruguay handles surveillance for 125 branches with Milestone software and SONY network cameras installed by Imagen y Sonido Profesional.



In 2001, El Banco de la República Oriental del Uruguay (BROU) carried out a closed tender for a new surveillance solution. The project was geared to cover the bank's 125 branches. 50 of these are located in the capital of Montevideo and 75 are in the interior of the country at distances of up to more than 800 kilometers from the control center located in Montevideo. The bank also has 5 other buildings, the National Treasury, and 100 ATMs. They required digital recording and remote viewing capabilities, with image backup for the entire BROU network.

Largest bank in Uruguay

The bank is the largest in Uruguay, responsible for the Treasury and the handling of public cash finances, so their security project is considered to be the most comprehensive, important and complex ever carried out in Uruguay. Due to its size alone, the surveillance solution chosen is the largest at banking level in Latin America, and it utilizes SONY cameras and Milestone Systems.

Because of its size and complexity, a work group was appointed consisting of highly qualified personnel from the security and surveillance area working for the Department of Bank Security at the BROU. The engineers Duran & Grille and the Director of the Department of Bank Security, Mr. Alessandro Gregorio, with the backing of the Uruguay Ministry of the Interior, were all involved to carry out the selection process of the company to be responsible for the project, the subsequent installation of the surveillance equipment, and the monitoring center.

The conditions for the pre-qualifications required the installation of 3 demo branches and 5 demo ATMs. Imagen y Sonido Profesional (ISP) emerged as the winner of the project by virtue of its history as a SONY representative in the field of CCTV in Uruguay. ISP is also an authorized Milestone Systems partner.

Complex Installations

For the ATMs, ISP used the newest SONY equipment - which at the time had not been put on the market - such as the SNT V304CE. These were integrated with 3 SONY SSC-M183P cameras, which transfer live images of each teller that are then recorded in the monitoring center using Milestone software for the receipt and administration of images.

"Milestone allows the recordings to be motion-activated, so whilst there is movement at an ATM, the system continues to receive and record frontal and lateral images of the person carrying out the transaction every second," explains Jose Cruzalvarez, Director of Imagen y Sonido Profesional.



ISP found that the most convincing option for the branches was the HSR 2P for local recording using up to 16 cameras, and the SNT V304CE for control via the network. Given the narrow width of the existing 128 KB band and the enormous number of images from more than 1,200 cameras, it proved impossible to record centrally in the branches.

"Consequently, we chose digital DV 270ME 60 GB local backup tape of the HSR 2P recorder, which by virtue of its practicality and cost was the best backup in the market," says Jose Cruzalvarez.

An EVI D100P mobile camera controlled by an SNT V304CE was added to the system in each branch for remote surveillance using Pan/Tilt and Zoom.

The configuration of a typical branch implementation consists of the following:

- ❖ 1 HSR2P for 16 cameras
- ❖ 1 SNT-V304CE for connection to the network and for operating the HSR-2P and the EVI-D100P
- ❖ 1 SSM-125CE monitor
- ❖ 13 DV 270ME backup cassettes
- ❖ 2 SSC-DC 193P color cameras, one for the entrance door and the other for the exit.
- ❖ 1 EVI D-100P for remote surveillance from the control center.
- ❖ 13 B/W SSC-M183CE cameras distributed in the central concourse and at each teller.

Imagen y Sonido Profesional chose 480-line SSC-DC193P color cameras for the treasury and bill counting. For the digital recorders, HSR-X200P models were chosen for their excellent frame rates, and the opportunity for remote viewing and control via the bank's network.

A surveillance control center was installed with twenty 19" LCD monitors for real-time viewing of all 125 branches and 100 ATMs and centralized recording with an 8 Tera backup NAS for the storing of information, with a mere 1-minute delay for obtaining and processing images recorded from one to 6 months. This location includes:

- ❖ 120 HSR2P
- ❖ 500 HSR 11A
- ❖ 1,300 COLOR/BLACK & WHITE CAMERAS
- ❖ 150 SNT V304CE
- ❖ 60 EVI D 100P
- ❖ 1,000 DV 270ME BACKUP VIDEO TAPES
- ❖ 120 SSM 125CE MONITORS
- ❖ 13 HSR X200P
- ❖ INSTALLATION OF 100 KM OF COAXIAL CABLE
- ❖ MILESTONE SYSTEMS XPROTECT IP VIDEO SURVEILLANCE SOFTWARE

Scalable for future expansions

The initial security implementation project cost a total of US \$3,000,000. Given the success of the project for its successful prevention and detection of various robberies, BROU in 2003 expanded the solution to cover five administration blocks. The additional project costs came to US \$500,000.

The BROU project and its huge dimensions will be exploited to the maximum by the Uruguay government to become the central surveillance and recording center for all public offices where money is handled.



About BROU

The Banco de la República Oriental del Uruguay (BROU), established in 1896, for its size is the most important bank in Uruguay. With 125 branches in the country and 5 more abroad, it is continually in the process of revitalizing. It is devoted to promoting development, commerce and social credit, through state-of-the-art technology and modernization of its operations. See <http://www.brounet.com.uy/Ingles/Ingles.htm>.

About ISP

Imagen y Sonido Profesional (ISP) was founded by JOSE CRUZALVAREZ in 1997, and obtained the dealership for SOBEC (Sony Broadcast Export Corporation) same year. As Director and owner of ISP, José Cruzálvarez' vision is to provide total turnkey surveillance solutions. Imagen y Sonido Profesional handles surveillance needs for 70% of the banks in the Uruguayan market.

