Next station: IP video surveillance.

The biggest metro rail in Brazil has installed 1,000 Axis cameras and video encoders in 50 stations and on trains.

Organization:
Companhia do Metropolitano de São Paulo – Metrô

Location:
São Paulo, SP, Brazil

Industry segment:
Transportation

Application:
Safety and security

Axis partner:
ISS

Mission

São Paulo's metro rail system, the largest in Brazil and the second largest in Latin America, carries over three million passengers a day. During the World Cup, Line 3 – the Red Line, which goes to the stadium, was going to be heavily used by spectators. With the world's biggest sporting event quickly approaching, the project to improve the video surveillance system was fast-tracked.

Solution

Initially some 400 Axis network cameras were installed, along with 600 Axis video encoders to convert signals from analog cameras into digital format; together, they covered traffic areas and platforms for three lines. In addition, some of the new trains already had Axis cameras onboard the cars, protecting passengers travelling between stations as well.

Result

The solution has proven to be critical in addressing problems quickly – the system's centralized architecture allows operators at the Central Control Center to alert security managers in the early stages of an incident, enabling these staff to manage the system in a more intelligent and efficient manner.

AXIS
COMMUNICATIONS

"**With the whole world watching, we would need quick access to cameras and instant recognition of individuals who were trying to enter the stadium to commit criminal acts.**"

Adriano Oliveira dos Santos, Engineering Specialist for Companhia do Metropolitano de São Paulo - Metrô

Quick search

Companhia do Metropolitano de São Paulo – Metrô operates five of the city's six metro lines, including 61 stations that serve 4.6 million passengers per day.

Every station has three switches linked by two optical Gigabit Ethernet rings. Each station has someone onsite monitoring movements using specific cameras; this enables immediate response to local incidents.

All movements are displayed in the Command Center. Twelve operators and six administrators analyze images in real time. In the Center, team members can oversee metro security operations through images handled by software from Intelligent Security Systems (ISS), an Axis partner.

Adriano Oliveira dos Santos, Engineering Specialist for Companhia do Metropolitano de São Paulo said, "the ISS Face Recognition solution allowed us to automate security procedures in conjunction with law enforcement so as to ensure maximum security for our visitors and residents."

The solution had an immediate impact. Several people have already been arrested for criminal activity on the metro, thanks primarily to its ability to search and quickly locate activities with the video surveillance system.

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