MAJOR AIRPORT UPGRADES VIDEO SURVEILLANCE SYSTEM

ANIXTER®

SUMMARY

Customer
Major international airport

Challenge
Upgrade and expand an airport's existing security system to an IP network

Solution
Technical expertise and training

Results
- Eliminated proprietary system's older technology
- Reduced maintenance costs
- Enhanced security system with sophisticated capabilities for greater passenger security through an integrated ordering platform
- Expanded surveillance system that allows for greater flexibility and capabilities to store, retrieve and analyze video information

Customer Challenge

Since 2005, a U.S. based international airport has seen a 25 percent increase in traffic and now boasts of more than 700 daily departures to 130 cities. The airport serves nearly 250,000 aircraft operations per year with annual traveler figures of more than 10 million. Three terminals serve the airport, with one dedicated to administrative functions. The main entry and bagging collection point for arrivals and departures is in Terminal 3, which is the most heavily trafficked and serves as the main concourse via an underground people mover.

Terminal 3 holds the airport's main security checkpoint before passengers depart to the concourse. The existing video security system relied on CCTV equipment. Because of heightened awareness of terrorism and safety concerns, the airport wanted to upgrade its current equipment to a more modern IP-based solution. However, budget constraints and an uncertain economy placed monetary pressures on the upgrade. The airport wanted to spread the cost of the IP security system out over a three year period. More than 200 IP cameras were to be installed at locations throughout the passenger facilities and on the airport grounds. To facilitate the transition and defer upgrade costs to later in the project, some analog cameras were kept in use and equipped with encoders to digitize their output to the IP network's servers.

With the existing CCTV posing a number of functional restraints including poor video quality and unreliable storage, the airport decided to install an IP system that would provide greater flexibility and adaptability to emerging technologies and equipment. The airport knew the type of solution it wanted, but because it was locked into a particular manufacturer's product set for so long, the airport was unfamiliar with the new technologies that were available to help meet its physical security goals. The airport contracted a systems integrator to design and install the IP-based video surveillance system. The integrator also needed a solution that could source the products to meet the specifications while providing best practices and knowledge on the technology and materials.

Anixter Solution

The airport selected Anixter for assistance with the evaluation, selection and purchase of cameras, software and cable for the conversion to the IP network. While the airport developed its security initiatives, Anixter leveraged its expertise in IP technology to provide training to the systems integrator. An Anixter systems engineer and security specialist prepared presentations that highlighted the latest products, technologies and best practices for networking and video surveillance solutions.

> Anixter's technical expertise enabled the systems integrator and airport to install a video surveillance solution that provided the much needed coverage and security required of a critical resource facility. By coupling technical knowledge and supply chain expertise with a vast product offering, Anixter was able to provide a holistic approach to securing the airport's facilities.

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By working with the airport's director of security, the city's chief of police and the airport's general manager, Anixter's technical and security experts provided a broad overview of the IP platform and its capabilities. Anixter also brought in key manufacturer partners to explain how different products interact and are used to secure the perimeter, terminals and concourses of the airport. While the old system only provided a centralized room access to the video images from the system's cameras, the new technology enabled anyone with access to view any camera from any place on the network. With cameras that could be controlled remotely, Anixter demonstrated the functional and financial benefits of switching to an IP platform.

Anixter provided a range of training on video surveillance technologies, including a day devoted to analog systems and a day devoted to IP-based systems. Anixter showed how an IP-based video surveillance system allowed the airport to view multiple cameras over a single network while providing greater scalability and flexibility to meet changing needs. An IP-based system also allowed the airport to adapt to future technologies such as infrared imaging or analytics that provide greater intelligence than stand-alone analog systems. After going through the principles behind the technology and the different product sets, the airport decided that an IP-based system best met its needs now and for future expansion.

Anixter worked upfront with the general manager of the airport, the director of security and the chief of police to train them on the technology and products, but also to confirm delivery of products arrived on schedule to minimize any downtime in the security system. Because the airport was fully operational during the upgrade, replacing the video surveillance cameras had to be carefully coordinated to not leave gaps in coverage. Anixter worked with the security integrator to develop a delivery schedule that matched the integrator's deployment plan to confirm safety of the airport's passengers.

Project Results

By phasing out the CCTV system and standardizing the surveillance cameras, the IP platform enabled the airport's security team to take advantage of a number of technological advances, including video content analysis. With control of the system's cameras networked into a computer, objects can be identified and tracked throughout the facility. The system can now "recognize" when a piece of luggage has been left unattended and notify security immediately. It is also possible for the system to alert security when a person is entering a restricted area or walking against one-way pedestrian traffic that's being directed to a central point.

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Technical Expertise

Anixter's national network of highly trained security specialists is supported by 2,700 salespeople in North America. They are ready to help you make informed decisions about the vast product offerings available in today's rapidly changing security marketplace. Whether you are an end-user, integrator or contractor, Anixter works to accommodate your needs and requirements, allowing you to focus onyour core competency.

Anixter has a variety of resources dedicated to keeping its customers current on the latest products, applications, standards and emerging technologies:

- Infrastructure Solutions Lab with end-to-end testing and performance reports
- Compatibility testing to confirm interoperability of products
- Technical knowledge of complete systems for surveillance and access control
- Deep understanding of IT and telecommunications standards
- Technical support with regional security managers and local networking and security experts
- Training and educational opportunities through Anixter University[SM]
- Technical Committee Chair at ONVIF to keep abreast of the latest developments and provide input into ONVIF specifications

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