



Izmir Adnan Menderes International Airport, Turkey



Location:
Izmir, Turkey

System:
American Dynamics:

- victor Unified Management Software
- VideoEdge Network Video Recorders

Software House:
C•CURE 9000 Security and Event Management System

As part of the construction of a new domestic terminal at Izmir Adnan Menderes Airport, the airport operator TAV EGE and systems integrator Sensomatic Guvenlik Hizmetleri created an integrated surveillance system that enabled security personnel to monitor both the old and new terminals using one platform.

Introduction

Part of Turkey's tourist region, Izmir is also a major import-export center, ranking just behind Bursa and Istanbul. Because of burgeoning tourism and business needs, the area has seen a steady increase in air traffic and Izmir Adnan Menderes Airport currently ranks fourth among the country's airports for passenger traffic. The introduction and growth of low-cost air carriers also prompted the need to create a new 200,000 square meter domestic terminal with eight passenger gates and a multi-level parking garage with more than 2,500 spaces. TAV Airport Holdings and its contracting arm, TAV-Ege, hold the operating rights for the domestic and international terminals at the airport until 2032.



Airport security staff can view the airport's CCTV, access control, fire safety systems and also intrusion systems from the central control room.

The existing terminal was operating on a video surveillance and access control system originally installed in 2001. With the construction of the new domestic terminal, a platform needed to be put in place that would accommodate the use of existing technology at the old terminal, such as analog cameras, with a new, IP-based infrastructure and all the modern, attendant products in the new building.

Solution

For its integrated solution, TAV and Sensormatic Guvenlik Hizmetleri chose Tyco Security' victor unified security solution. Now using a single interface, security personnel at the airport gained the ability to manage live and recorded video via multiple VideoEdge NVRs, also from Tyco Security.

The VideoEdge NVRs allow the nearly 700 analog cameras located in the old terminal to migrate to the IPbased system, along with 600 new IP cameras that were installed in the new terminal. VideoEdge allows multiple video streams for live or recorded viewing, including alarm-based incidents. The recorders also provide embedded video analytics to help security officers recognize and investigate suspicious activities such as loitering or objects left behind in real time.

The airport's new system also includes the Software House C•CURE 9000 access control platform for security and event management for monitoring activities, managing personnel and creating reports. The access control platform also serves as a redundant system to the victor security management system.

The use of the C•CURE 9000 access control system also helped TAV personnel to have control access to restricted areas such as customs, apron, and the terminal. The integration between the CCTV and access control systems also alerts operators if an alarm occurs at an access control reader by automatically triggering the view of the related camera. The system is also integrated with the airport's fire systems to assist staff with proper procedures during an emergency, and is also enabled for integration with the airport's perimeter security system.

In migrating to IP-based technology, the airport was able to replace about 120 older model monitors and 30 DVRs. New display monitors from AG Neovo were added along with a Bosch public address and intercom system. The security platform serves as the backbone for the integrated PA and intercom.

Although no firm plans are in place to add cameras, the scalability of the overall system based on victor, VideoEdge and C•CURE makes it easy for the airport to expand its video and recording capabilities. Sensormatic and airport officials ensured that an additional 25 percent of capacity was built into the system for future installations and upgrades.

Integrator Sensormatic took the lead on technical and operator training, conducting a one-week seminar and locating a dedicated technician at the airport to assist operators and security personnel as necessary.

"The migration to an IP-based platform was our main goal," said Adil Akkaya (Electric&Electronic Sys. Coord. TAV Construction and Operation Co.), **"and we easily achieved that by continuing our relationship with Sensormatic and selecting Tyco Security on which to build our surveillance and access system."**

The Customer - TAV Airports

Founded in 1997, TAV Airports is Turkey's leading brand in the global airport operations sector, operating airports in Istanbul, Ankara, Izmir and Gazipasa-Alanya in Turkey, Tbilisi and Batumi airports in Georgia, Monastir and Enfidha-Hammamet airports in Tunisia, Skopje and Ohrid airports in Macedonia, Madinah Airport in Saudi Arabia and Zagreb Airport in Croatia. Its business includes other airport services as well such as duty-free, food and beverage, ground handling, IT, security and operations. In 2014, the company provided services for 743,000 flights and 95 million passengers. The company also operates TAV Construction, created during a restructuring in 2006. In 2012, 38 percent of the publicly owned company's shares were sold to Aeroports de Paris.



The unified CCTV and access control system at Izmir Airport allows for a consolidated view of security operations at areas both inside and outside the terminal.



The Solutions Provider – Tyco Security

Tyco Security is a unified group of the most comprehensive world-leading premium access control, video, location-based tracking and intrusion solutions in the security industry. Tyco Security conducts business in over 177 countries around the world, in multiple languages and employs over 2,800 employees globally, including research and development, marketing, manufacturing, sales, service and logistics teams in the Americas, Europe, the Middle East, Africa, and Asia Pacific. Our products, built by developers from all product disciplines, consistently allow customers to see more, do more, and save more across multiple industries and segments including healthcare, government, transportation, finance, retail, commercial and residential. Worldwide, Tyco Security helps protect 42% of Fortune 500 companies, transportation systems on five continents, 37% of the world's top 100 retailers, over two million commercial enterprises, thousands of students in more than 900 educational facilities, and over five million private residences.

The Integrator – Sensormatic Guvenlik Hizmetleri

Since 1994, Sensormatic Guvenlik Hizmetleri has been a leader in electronic security systems integration. Sensormatic Guvenlik Hizmetleri, headquartered in Istanbul is a part of the Securitas group of companies. With 250 employees and 7 branch offices, it provides service to customers all around Turkey. Sensormatic is market leader in many industries such as aviation, retail, banking and justice services. In 2014, 62% of total airline passengers in Turkey (103 million out of the 166 million) have used airports secured by Sensormatic. With deep experience in different verticals, Sensormatic offers technology solutions that address security risks while increasing the customer's operational efficiency and profitability.

About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers, and manufacturing. With a global team of 105,000 experts in more than 150 countries and over 130 years of innovation experience, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, YORK®, Metasys®, Ruskin®, Titus®, Frick®, PENN®, Sabroe®, Simplex® and Grinnell®.