

## LONG ISLAND MACARTHUR AIRPORT SECURITY ENHANCEMENT



Long Island MacArthur Airport, located on 1,310 acres in Suffolk County, Long Island, New York, is the region's only commercial service facility. At the beginning of World War II, Congress appropriated millions of dollars for the development of civil landing areas in the name of national defense, establishing a direct tie with the federal government for airport oversight and for the local government to provide land maintenance for the facility. The construction project, initiated in 1942, resulted in an airfield with three 5,000-foot runways and three ancillary taxiways. In 1966, the airport was expanded to include a second passenger terminal in 1966. The Airport was eventually renamed *MacArthur Airport*, in honor of General Douglas MacArthur.

Today, Long Island MacArthur Airport (LIMA) is a public facility owned and operated by the Town of Islip. Subsequent to Island's population growth,

LIMA is one of the top 90 airports in terms of passenger volume in the United States. The airport serves nearly two-million commercial passengers annually from four runways and two helipads, averaging 5,000 passengers and 500 flights a day. The property also houses approximately 250 private and general aviation aircraft.

### ABOUT THE PROJECT

In 2011, the Federal Aviation Administration (FAA) designated LIMA as a New York Metro Airport. With the opportunity for expanded air service and passenger growth, the Town of Islip decided to upgrade the airport's analog surveillance system to include more advanced digital IP-based High Definition (HD) video technology.

LIMA's management wanted to retain elements of its existing video security system, which consisted of a large number of analog cameras, while adding IP-based HD cameras and video technology to expand into areas that were not covered by its security system. LIMA's management wanted to platform any improvements on its existing analog camera security system in order to manage the costs of an upgrade and also have flexibility for future system expansion.

The management of LIMA selected IPVideo's intuitive Sentry VMS (Video Management System), with service through a regional systems integrator, to fully integrate all of its existing and new surveillance cameras under a central video management system. IPVideo's solution enabled LIMA to upgrade its existing system, taking full advantage of new digital video technology, while leveraging previous investments by incorporating the airport's existing technology into the new system.

Sentry VMS provides enhanced features that address the unique needs of airport operations including HD cameras that capture facial details to aid officers in identifying persons of interest and resolve incidents. In addition, the system's timeline feature improves overall customer service, allowing law enforcement to quickly and easily review video, help travelers find lost property and locate cars in the parking lot.

### ABOUT THE SOLUTION

After researching competing VMS systems, LIMA found IPVideo's Sentry VMS provided an easy to use, reliable and proven security data management solution, which included software, hardware and storage. In addition, its purpose-built hardware platform is custom designed to withstand the data demands of 24/7 IP security applications. Increased redundancy, performance and simplicity are provided using RAID-1 storage. Sentry VMS supports all megapixel and HDTV video resolutions. The solution also offers system health monitors that send an alert if the system is disturbed by power outages, cameras going offline, or temperature going out of range.

IPVideo Corporation's technology group and the chosen integrator designed and installed a new, scalable and fully-functioning video surveillance system, which meets LIMA's current and future needs. Using technology developed by IPVideo, the system integrated existing analog cameras and infrastructure into the desired solution using two Sentry VMS Enterprise servers.

The new system consists of a network of hundreds of cameras, two-thirds IP and one-third analog. A new 30-foot central command center was constructed with an



**sentryVMS**  
by IPVideo Corporation



advanced security console, consisting of six 22-inch monitors at 45 degrees and two 26-inch articulating monitor, with a large work area. IPVideo Sentry VMS and video encoders were used to connect existing cameras, saving over \$200,000 in the process and tremendously improving efficiency and work flow. At the recommendation of the integrator, two high Mega Pixel cameras were installed to further enhance fire, rescue, safety and security. The system is built on Alcatel Lucent switches and a dedicated parallel network. A Motorola wireless system, approved for airports, was used.

The IPVideo team effectively met the challenge of working with LIMA's existing older wire infrastructure through its proprietary technology along with a Balun, an electrical device that converts between a balanced signal and an unbalanced signal to connect the two systems.

## PROJECT COMPLETED WITH ROOM FOR EXPANSION

IPVideo Corporation and the integrator achieved the client's goals of having a centralized system with more cameras and a fully integrated, easy to use, higher quality (HD), live video surveillance, video management and video archiving system. IPVideo's solution enabled LIMA to upgrade its existing system, taking full advantage of advances in digital video technology while leveraging previous investments by incorporating much of the airport's existing equipment into the more advanced system. The new system is easily expandable, allowing for dozens, or even hundreds, of cameras to be easily added as the airport expands (e.g., parking lots, etc.), the system is in position to adapt to meet future needs.



**PROJECT SAVINGS:** LIMA saved \$200,000 for taxpayers by using IPVideo's Sentry VMS solution.

### Equipment Used

Sentry VMS enterprise client servers, a variety of indoor fixed dome network cameras with remote focus and zoom, 1080p HDTV fixed dome and dome cameras, HDTV Pan/Tilt/Zoom (PTZ) cameras, high-speed indoor PTZ dome camera's with 36x zoom, and HD video encoders. The system is built on Alcatel Lucent switches and a dedicated parallel network. The wireless system used was Motorola, approved for airports.

### About IPVideo Corporation

IPVideo Corporation is a leading manufacturer of Video Management Systems (VMS) and Physical Security Information Management (PSIM) solutions that empower organizations to proactively mitigate security risks while maximizing return on investment. A pioneer in network physical security technology, the company has been deploying proven IP-based security solutions for over fifteen years.

The company's industry-leading, Sentry VMS product is differentiated from competing solutions through its build-in simplicity, ease of use and lifetime upgrade program. IPVideo full line of product solutions enable clients to identify, prioritize and resolve security events, thereby improving safety, increasing security and managing compliance with internal and external regulations.



## RESULTS AND FEEDBACK

### End User Commentary

Greg DeCanio,  
*Chief of Law Enforcement at Long Island MacArthur Airport.*

Sentry VMS gives us fuller coverage than we ever had before, providing us with an extra set of eyes to help protect the traveling public. We are pleased with the new system's ease of installation, and comprehensive flexibility, which allows us to expand as we grow our operations. The system also provides us the ability to access video at our computers, making us more efficient and letting us monitor activity for security and law enforcement purposes at the touch of a button.

The system has been working well and we're completely satisfied with it and the support that IPVideo and the integrator provided. For instance, the quality of the HD video with the panning and zooming features of the cameras have proven helpful. There have been multiple cases when we have needed to go to the video archives and IPVideo's solution has assisted us in successfully completing investigations. We have been able to go back to these archives and quickly find what was needed. The system has made our lives easier.