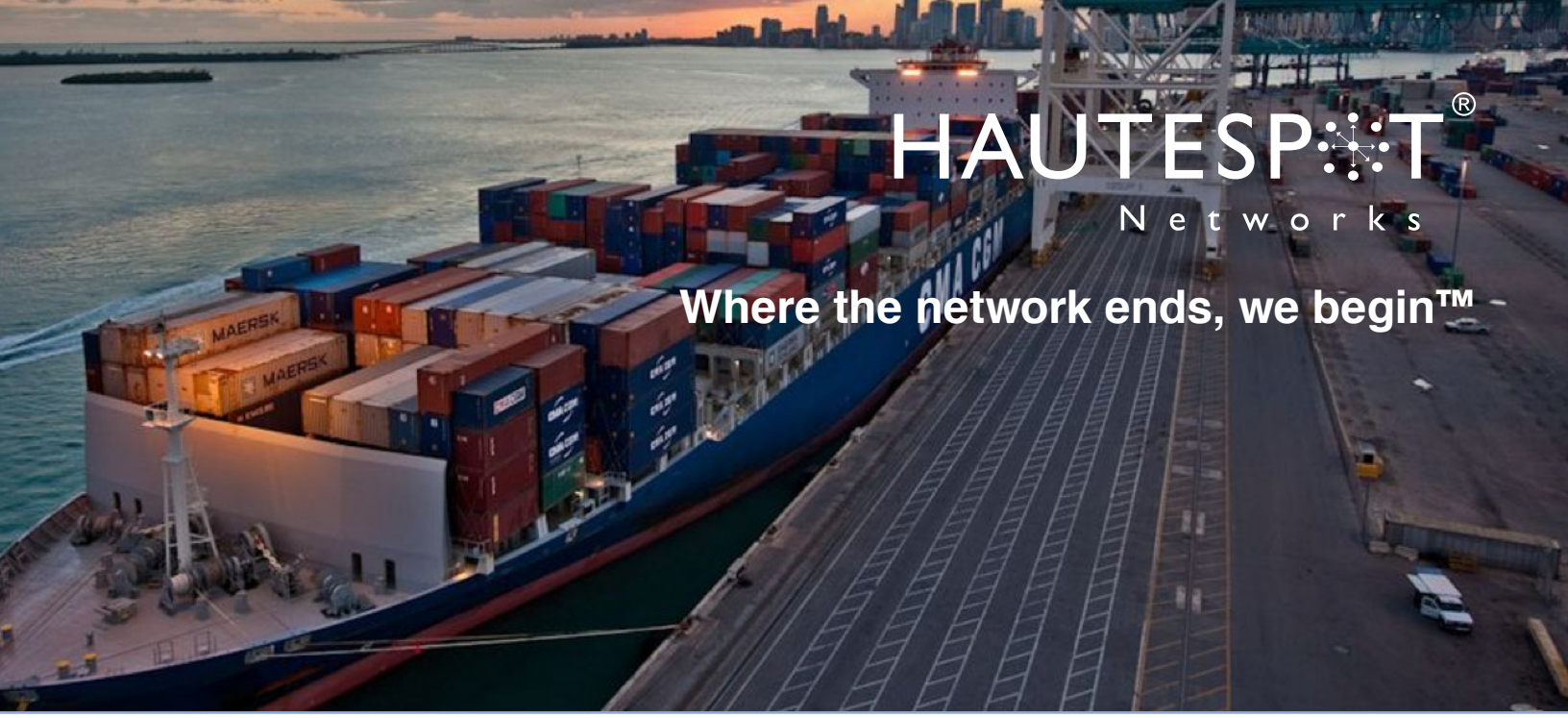

Success Brief

Video Surveillance
BASE5N-90
WRAPSTALC5N-16

The Port of Miami Installs High-Performance Wireless Security

Project:	The Port of Miami, Biscayne Bay, Florida
Company:	SecureComm
Goals:	• Secure, reliable, high-performance wireless security • Replace a wired, analog, system • Achieve same video quality as the old analog system in new digital format
Challenges:	• CCTV video surveillance system with analog cameras • Real-time Pan-Tilt-Zoom performance over the network • Rigid infrastructure • Environment is composed of concrete, asphalt and heavy machinery • Wireless interference such as radar, cruise ships,various Wi-Fi devices, and weather tracking systems • Damp, humid Florida climate.
Results:	• Overcoming the interference issues • Fully support PTZ functionality • Real-time monitoring • Delivering high-performance waterproof solution

"Eight of the 16 AXIS PTZ cameras are wireless with the others being a combination of fast Ethernet and fiber optic hardware. The client couldn't tell the difference between what was wired and what was wireless!"

Woodroy Bennett
President, SecureComm

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The Port of Miami is located in Biscayne Bay in Miami, Florida. It is the eleventh largest American seaport. The Port annually passes 7.8 million tons of cargo and employs roughly 176,000 people[1].

Goals

Port administrators sought to implement secure, reliable, high-performance wireless security to replace a malfunctioning wired system. In September 2011, SecureComm, a Florida based security integrator was selected to install a comprehensive surveillance solution. SecureComm chose HauteSpot Networks as their wireless partner. HauteSpot engineers, together with SecureComm project managers, diligently designed a 16 camera, multi-point system, utilizing ten high-performance HauteSpot routers.

Challenges

HauteSpot Networks and SecureComm had to resolve significant challenges in order for the project to be successful. First, the Port was using a CCTV video surveillance system running on analog cameras. The cameras needed reliable networking, thus video encoding was required. Second, the cameras required Pan-Tilt-Zoom (PTZ) performance over the network that was as responsive as their analog system. Third, wireless was favorable because of the Port's rigid infrastructure. It would be both cost and time consuming to bury wires in an environment that is composed of concrete, asphalt and heavy machinery. Fourth, the Port's radar and weather tracking systems were prime culprits for wireless interference. Last, the equipment needed to be weather resistant and waterproof due to the damp, humid Florida climate.

Results. A Collaborated Solution

In October 2011 SecureComm began the install. Because the cameras needed reliable networking, video encoding was used to achieve the same video quality as the old analog system only in new digital format. Advanced Video Coding (AVC) protocol, simultaneously compressed the video image size while preserving the resolution. Reducing the image size allowed all 16 cameras to stream high-definition, real-time video.

SecureComm Systems Integrators, Inc. specializes in the design, installation and maintenance of integrated security management systems, access control systems, video surveillance and electronic ID badging systems for commercial applications. Our systems are used in homeland security, colleges, universities and throughout our communities. We place a great deal of pride in every job we take.

SecureComm Systems Integrators, Inc. provides professional and customized solutions locally and nationally. We attribute our success of attaining satisfied customers to providing excellent, prompt, efficient service. We are committed to providing the best service the industry has to offer. All our full time technicians and installers are factory trained.

SecureComm
Systems Integrators, Inc.

www.securecommsystems.com

[1] http://www.miamidade.gov/portofmiami/cargo.asp

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As anticipated, the system encountered an overwhelming amount of wireless interference from radar, cruise ships and various Wi-Fi devices in the vicinity. HauteSpot Network's base-station routers are equipped with integrated Spectral Analysis. This allows HauteSpot technicians to remotely access the routers, analyze the airwaves and determine the source of the interference. In addition, HauteSpot routers are designed with HS Configurator, a network management and configuration tool. Using these aids, coupled with configuration suggestions from HauteSpot technicians, the persistent SecureComm installers were able to overcome the interference issues. As an additional precaution, HauteSpot Networks implemented Adaptive Noise Immunity technology. This technology automatically analyses, filters and bypasses contentious areas, enabling the network to thrive.

"Considering the interference here on a container facility, picture has an amazing quality."

Andre Navarro
Security & Safety Manager,
South Florida Container Terminal

The Port requested PTZ camera functions to be in real-time. HauteSpot Network's routers fully support PTZ functionality. Specifically, Quality of Service (QoS) settings allow monitoring of data flow and prioritization of IP traffic, assuring levels of service to PTZ functions. SecureComm employed this function and achieved the near real-time performance the Port requested.

As for Miami's climate, HauteSpot routers are encased in aluminum,NEMA rated, waterproof enclosures made to withstand coastal weather. For the reasons stated above, HauteSpot Networks was chosen because its equipment is specifically designed to deliver performance in uncompromising environments with a multitude of variables.

"They all just worked perfectly. This project is a success with a very satisfied customer."

Woodroy Bennett
President, SecureComm

The new wireless surveillance system exceeded the expectations of administrators at the Port of Miami. HauteSpot Networks knew there would be challenging obstacles to overcome when constructing the wireless design. Many of the firmware tools and settings specific to HauteSpot equipment, not only ensure performance, but also keep the entire system efficiently operating. Equally important, the meticulous installation work done by SecureComm was integral to the completion of this project. As a result, SecureComm has become a dedicated partner of HauteSpot Networks and will continue to promote HauteSpot products in the future. Undoubtedly, HauteSpot equipment is secure, reliable and can perform even under the most demanding circumstances.

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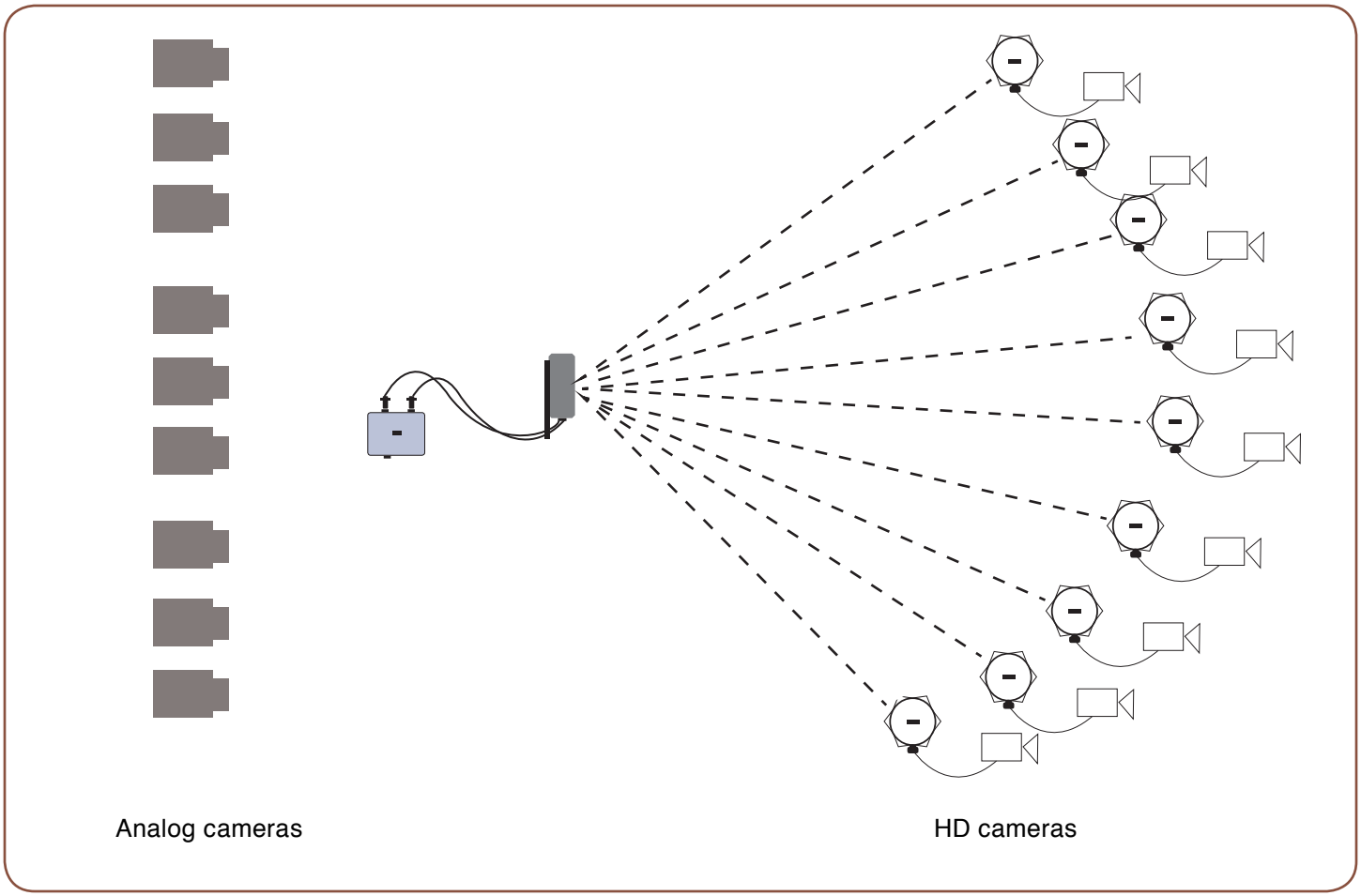

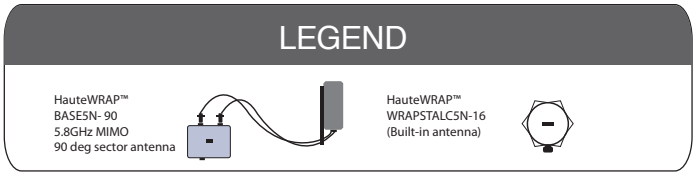

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