

SOLUTIONS By Market



Transportation & Supply Chain Security

No matter the cargo, risk reduction takes a multilayered approach.

- Training, Security Policies and High- and Low-tech Solutions
- Building Security into the Chain Builds Business Value
- Making ROI Sense of Government Programs and Policies

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Commentary

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A Supplement of:

SDM
New Directions for Security Systems & Processes
SECURITY
SOLUTIONS FOR ENTERPRISE SECURITY LEADERS

Case Study #1**2-in-1 Device Is Cleared for Take-off**

Detex solution provides delayed egress and latch retraction in one device for airport security.

When Mike Hulet, systems program supervisor at Salt Lake City International Airport saw the Detex Advantex Electric Latch Retraction (ER) device he thought it might be a great addition to his access control system, but he wanted more.



A delayed egress with latch retraction system keeps airport intruders out. PHOTO COURTESY OF DETEX

The airport needed to add delayed egress to many doors and integrate these exit devices with their existing access control system. A conference call with Detex engineers resulted in a unique design that incorporates two electronic functions, delayed egress (EE) and latch retraction (ER) in one device. The original Advantex EExER was delivered to Mike, installed on a rear restaurant door within the airport and integrated with the airport's access control system. The delayed egress prevents anyone without security clearance from exiting through the restaurant's back door into the secured area of the airport. The latch retraction operates with the access control system, bypassing the delayed egress, and allows authorized exit and entry without sounding the 100-decibel alarm. Attempts by unauthorized personnel to breach security trigger an alarm, with the door remaining locked for 15 seconds. As with all delayed egress, the fire alarm provides a central override, should a fire situation arise.

When asked how the Detex delayed egress with latch retraction system was working for the staff at The Salt Lake City International Airport, Mike Hulet stated, "An airport environment is hard on security equipment. Because the push-pad retracts out of the way, carts don't catch on the bar, which was ripping the old bars off the door. For three-and-a-half years the EExER device has worked better than expected."

The Advantex by Detex EE x ER continues to provide the perfect balance of life safety, access control and security, allowing

only authorized personnel to enter and exit, while keeping the area beyond the door secure.

For more information, visit www.detex.com.

Case Study #2**Sao Paulo Mass Transit Goes IP Surveillance**

Samsung GVI Security boasts myriad gear to make an effective tool for transportation security.

The IP video surveillance solution for the Sao Paulo mass transit system features a range of GVI Samsung Electronics IP networked products including Samsung IP high-resolution day/



A busy Brazilian mass transit system has transitioned to IP video.

night color video surveillance cameras and Samsung IP pan tilt zoom high-resolution day/night dome cameras. The project installation is expected to be completed this quarter. As Sao Paulo's mass transit system rapidly grows to meet the needs of its expanding population, the ease of deployment and rapid scalability of the GVI Samsung IP video solution made it the ideal choice for a system with an ongoing need to continually upgrade and expand its video security infrastructure.

According to the tech firm, transportation customers will specify nothing but an IP video solution. Almost all airports, seaports and other transportation hubs install IP video surveillance systems. They need to stop incidents as soon as they are detected.

With IP digital video solutions, they can better validate whom and what they are seeing with an increased clarity of image. They can prevent incidents before they happen and, with enhanced recording tools, easily identify perpetrators afterwards.

In the large areas that transportation surveillance applications cover, there is always the possibility that either a camera or the network itself can go down. Therefore, it

is highly suggested that the camera used be vandal-proof and weatherproof plus provide on-board storage. Preferred is flashcard storage of up to 12 gigabytes, approximately two days of gathered video.

Better yet is the ability for the camera to be able to store these 12 Gb in standard analog, JPEG and MPEG-4. Most users want to deploy both of the latter two. JPEG assures high-quality video while MPEG-4 provides more efficient streaming. With a dual-streaming IP camera system, the application gets the best of both worlds.

High-resolution monitors are vital. High-resolution cameras that ultimately feed their images to a lower resolution monitor will provide the user with lower resolution images. Many integrators overlook this aspect of the system and customers are initially very disappointed in the quality of

the image. The monitor needs to be high resolution as well.

Samsung GVI also has a field technical support team so that these professionals in transportation surveillance systems can help with everything from product/system operational guidance, specification clarification, pre- and post-sales support, troubleshooting, integration assistance, on-site training, firmware updates and system design to service/repair/replacement coordination. For information, visit www.samsung-security.com

Case Study #3**Special Events, Special Needs: Technology Teams Transportation, Safety and Security Agencies**

VidSys PSIM brings together diverse New York transportation agencies.

When a city has a special event that draws a significant crowd, what can the city do to ensure the safety and security of not only the dignitaries but the public as a whole, especially

Case Study #4**Homeland and Transportation Security Blend in Italy****A license number/plate recognition system bolsters transportation protection on the fly.**

Countries around the world seek advanced technology-powered tools to protect communities and citizens from threats to homeland security. PYtraffic Srl, distributor of Federal Signal PIPS systems in Italy, has provided Sintel Italia S.p.A. with a network of automatic number/license plate recognition cameras. This deployment is part of a broader video-based homeland security installation

**License plate recognition brings a new security tool to on-street transportation and homeland security in Italy.**

in the Campania and Calabria regions of southern Italy.

Emanuele Polizzi, a member of the Sintel Italia's technical staff, noted, "The cameras that are already in place are working well and capturing more number plates than expected."

The camera provides single lane coverage, delivers a high degree of accuracy in plate reads and offers ease of use and integration with larger homeland security and intelligent transportation systems. The network captures and reads the license plates of cars, commercial vehicles, motorbikes and mopeds. The network then feeds license plate data to a central application, where the data is compared against known vehicles of interest. If a match is made, the system user will be notified as a "hit" and the security video system will then track the vehicle.

when it comes to transportation?

Simple problems like moving large crowds to and from venues quickly and safely, protecting dignitaries as they travel around the city, assuring standard services continue to operate (including fire, trash collection, police response, etc.) are coupled with increased concern for terrorist attacks or weather related problems. In any scenario, the smooth operation of the transportation system, and its coordination with other city agencies, becomes a primary planning focus.

With technologies such as video cameras, video analytics, and mobile technologies, coupled with existing CAD systems, road sensors, traffic control systems, and first responder systems, cities have an extended array of tools they can use to not only implement and monitor plans but also respond to changes or emergencies in real-time.

**A physical security information system brought together a variety of local and regional agencies.**

A number of cities have been working towards a solution that works across diverse agencies. During a recent visit from the Pope, one east coast city was able to take video from cameras belonging to multiple agencies and place the video on the displays in the mobile police units around the city. A similar scenario played out when a public entertainment event brought hundreds of thousands of people to an outside venue. Not only can the people and the dignitaries be monitored for safety but the transportation department can use the same assets to monitor traffic flow on the local highways. In the case of a recent visit from the President, not only can the systems monitor his caravan's progress but also control and reroute traffic in the area.

Over the last couple of years, new technology called PSIM (Physical Security

Information Management), which neutralizes the differences between systems, has been deployed in leading cities to allow for cross agency sharing of security assets and information. PSIM is designed and optimized to integrate and analyze information from traditional physical security devices and systems, and present the necessary data to automatically or manually resolve the situation in real time. The software provides all the necessary tools for situation management including data collection, verification, analysis, resolution, and tracking. During public events, cities can leverage PSIM software to view and manage live and recorded video, alarms and events and collaborate as well as coordinate communications to field personnel via hand-held mobile devices, squad car displays and city mobile centers

A number of recent articles highlighted a PSIM system in New York City where the Joint Transportation Management Center pools information across NYS DOT, NYC DOT, NYC Police and the Office of Emergency Response.

That's what Adam Levine of JTMC sees as the convergence of security systems and transportation management systems.

"JTMC is a shining example of inter-agency communication, collaboration and responsiveness. By aligning personnel, procedures and policies on top of a comprehensive technology platform that leverages both new and existing infrastructure assets, we're able to get the most timely and important information in the hands of decision makers when they need it.

"With a common operating picture, we're better equipped to achieve our objective of safely and efficiently moving people, goods, services and information throughout the city and state of New York – and physical security information management software is the glue that brings the entire technology infrastructure together."

In this time of concern for both increased public safety but limited financial resources, these systems traditionally used for special events can be deployed across city and state agencies to pool the assets and skills of the different groups for more effective day-to-day operations. The results include not only lower equipment costs and lower operations costs but higher levels of response and increased security and safety. Who wouldn't want that?

To learn more about PSIM software visit www.psimtrends.com. More details on the JTMC project go to www.securitymagazine.com.