

Security Solutions Today

September / October 2014

HOMELAND SECURITY

Cover Focus

Intelligent Integration - A Critical Step For Critical Infrastructure Protection

Security Feature

Maximizing The Potential Of Airport Security Systems & More...


In Focus

***An Interview With Nathan Manzi, Managing Director,
Asia Pacific Smiths Detection***

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Calendar Of Events



IFSEC Southeast Asia 2014

Date: 3 - 5 September 2014
Venue: Kuala Lumpur Convention Centre, Malaysia
Contact: TJ Tan
Organiser: UBM plc
Tel: +6-03-2176 8788
Email: tj.tan@ubm.com
Website: <http://www.ifsecsea.com>

CAM SECURITY 2014

Date: 10 - 12 September 2014
Venue: DIECC, Phnom Penh
Contact: Richard Yew
Organiser: AMB Events
Tel: 603 40419889
Email: richard@ambexpo.com
Website: <http://www.expocambodia.com/camsecurity.htm>

Security China 2014

Date: 28 - 31 October 2014
Venue: China International Exhibition Centre (New Centre)
Contact: Tony Lee
Organiser: China Security and Protection Industry Association
Tel: +86-10-51920615
Email: bizcspia@yahoo.com.cn
Website: <http://www.securitychina.com.cn>

Secutech ASEAN 2014

Date: 26 - 28 November 2014
Venue: Bangkok International Trade and Exhibition Centre (BITEC), Thailand
Contact: Eva Tsai
Organiser: Messe Frankfurt New Era Business Media Ltd.
Tel: (886) 2 2659 9080 Ext. 668
Email: stth@newera.messefrankfurt.com
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Hotel Expo 2014

Date: 26 - 28 November 2014
Venue: The Venetian Macao
Organiser: Coastal International Exhibition Co., Ltd.
Tel: (852) 2827 6766
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Website: www.coastal.com.hk

ASIS 8th Asia-Pacific Security Forum & Exhibition

Date: 7 - 9 December 2014
Venue: Sands Expo & Convention Center, Marina Bay Sands, Singapore
Organiser: ASIS International EMEA Bureau
Tel: +32 2 645 2674
Email: asiapacific@asisonline.org
Website: www.asisonline.org

Global Security Asia 2015

Date: 3 - 5 March 2015
Venue: SUNTEC Singapore
Contact: Joseph Yeow Kuen, Ong
Organiser: GSA Exhibitions Private Limited (GSAL)
Tel: +65 6392 5328
Email: yeowkuen@globalsecasia.com
Website: <http://www.globalsecasia.com>

Interpol World 2015

Date: 14 - 15 April 2015
Venue: Sands Expo & Convention Centre, Singapore
Contact: Patricia Chong
Organiser: INTERPOL
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Editor's Note

Dear Readers,

Welcome to the September/October Issue of SST which covers Homeland Security.

In the modern world we live in, because of the Internet, everything is connected to everything. We are interdependent and interlocked as nations and as individuals and this makes us vulnerable. It has therefore become more critical than ever for us to remain resilient and safeguard our nations from the onslaught of threats. In the wise words of Paddy Ashdown, Veteran Diplomat and Knight Commander of the British Empire, "It used to be the case that if my tribe is more powerful than their tribe, I was safe. My country was more powerful than their country, I was safe. My alliance, was more powerful than their alliance, I was safe. It is no longer the case."

In this issue, we look at the huge umbrella of homeland security, which encompasses Border Security, Emergency Preparedness and Response (for both terrorism and natural disasters), Domestic and International Intelligence Activities as well as Critical Infrastructure and Perimeter Protection.

David Aindow, Product and Technology Director at Synectics, has penned our cover story, which explores Critical Infrastructure Protection (pg. 24). I have also included our exclusive interview with Nathan Manzi, Managing Director of the Asia Pacific Smiths Detection (pg. 100). This issue's product Spotlight Section features companies such as Axis Communications, VIVOTEK Inc., Bosch Security Systems and Gallagher to name a few (pg. 102). You can also look forward to coverage of upcoming shows such as Safety & Security Asia 2014, Security China 2014 as well as the Hotel Expo 2014 (pg. 133).

Don't forget to 'Like' us on our Facebook page: www.facebook.com/securesolutionstoday and subscribe to our website <http://sst.tradelinkmedia.biz>.

Thanks and have a great read!

Sharon Kaur
Editor



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mBank Poland Deploys HID Global's Multi-Factor Authentication Solution For Secure Internet And Mobile Banking

HID Global®, a worldwide leader in secure identity solutions, recently announced that mBank, a leading Polish Bank (owned by Commerzbank), has successfully deployed HID Global's ActivID® DisplayCard Tokens. The tokens provide mBank's corporate banking customers with an advanced, multi-factor authentication solution to securely access their Internet and mobile banking accounts. Headquartered in Warsaw, Poland, mBank is amongst the pioneers for corporate banking services in the country. It was also recognized in 2013 by Efma and Accenture as "The Most Disruptive Innovation" for projects and initiatives in the retail financial services arena that radically change and redefine the way it does business.

mBank was seeking a highly secure, convenient and innovative Internet and mobile banking authentication solution that was easy to deploy. HID Global's ActivID DisplayCard Tokens

were selected by mBank based on these stringent requirements and HID Global's unique, patented algorithm that was interoperable with mBank's back-end system. Further, HID Global was recognized by the bank as a reputable brand that offered strong authentication and advanced fraud protection based on its long-standing relationship and successful implementations over the last 10 years.

"HID Global is a trusted and recognized brand that offers the best solutions in the market. The company's ActivID® DisplayCard Tokens were easy to integrate into mBank's banking solutions," said Aleksander Gawro-ski, Electronic Banking director with mBank. "Thanks to HID Global, we are able to offer our corporate banking customers an improved, convenient and higher security multi-factor authentication method when accessing their accounts on the Internet and on their mobile phones."

The ActivID DisplayCard Token has enabled mBank to offer its corporate banking customers a customized, credit card style authentication solution. The token includes a touchpad for secure PIN entry that can fit in customers' wallets easily, making it highly portable and allowing access to their Internet bank accounts anytime, anywhere. Providing this enhanced customer satisfaction has resulted in mBank continuing to retain its customer loyalty. The ActivID DisplayCard also eliminates the need for special readers and is an all-in-one solution that delivers a cost-effective solution to mBank. Based on its continued successful relationship with HID Global, mBank is looking to further collaborate with the company to extend its corporate banking offering to include new, advanced solutions for its retail banking customers. For more information, visit www.hidglobal.com. **SST**

Innovative Arecont Vision® SurroundVideo® Omni Cameras Now Shipping Globally

Unique Design Allows Four Image Sensors to Be Individually Positioned Inside A Single Housing

Arecont Vision, the industry leader in IP-based megapixel camera technology, has commenced shipping its innovative SurroundVideo® Omni cameras. First previewed late in 2013, the versatile omnidirectional camera systems feature four multi-megapixel sensors that can be individually adjusted to capture different fields of view within a full 360-degree range. This unprecedented flexibility allows a single camera to provide the same detailed coverage as four multi-megapixel cameras with the ability to use different lenses for each sensor.



continued on the next page 12

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Possible configurations of the unique SurroundVideo Omni cameras include 270-degree panoramic coverage using three image sensors with the fourth image sensor pointed straight down. This configuration is ideal for placement on the corners of buildings. Hallway intersections are another popular configuration, as four telephoto lenses can be used to obtain full coverage looking down separate long hallways. The added versatility provided by SurroundVideo Omni cameras eliminates the need for multiple cameras, reducing overall system costs. Arecont Vision's new SurroundVideo Omni cameras are available in 12-Megapixel (MP) WDR and 20MP configurations. For added versatility, the low-profile camera systems offer multiple lens options from 2.8mm up to 16mm.

Arecont Vision's SurroundVideo Omni cameras feature Wide Dynamic Range (WDR) of up to 100dB at full resolution to maximize image detail on both bright and dark areas of a scene without lowering frame rates on the 12MP model. This represents up to 50dB improvement (300X) in dynamic range compared to conventional cameras. SurroundVideo Omni cameras include dual H.264 (MPEG-4 Part 10) and MJPEG encoders, privacy masking, extended motion detection with 1,024 zones per channel, and pixel binning for increased sensitivity in low light applications. The cameras' IP66-rated environmental housing and polycarbonate bubble are impact-resistant IK-10 rated. For more information, visit www.arecontvision.com. **SST**

VIVOTEK USA Announces New President David Liu (Yui-Juin Liu)

VVIVOTEK recently announced the appointment of David Liu (Yui-Juin Liu) as VIVOTEK USA's president effective June 30, 2014. Harry Hu, the former president, stepped down for personal reasons and plans to return with his family to Taiwan.

"It has been an honour and pleasure to work with our management team and employees for the past eight years," said Harry Hu. "With a proven record of growing businesses and managing complex projects, David will lead VIVOTEK to the next level in our business. I'm confident that under his leadership, VIVOTEK will continue to expand its business and deliver tremendous value to our partners."

In the search for a new president, the Executive Board of VIVOTEK sought a candidate who could build on VIVOTEK's leading position in IP surveillance and continue to accelerate its fast-growing business. "We had very specific criteria for our new president, and we were very strategic about finding the right person," said Eddy Lan, VIVOTEK's founder and vice chairman. "No one better understands the strength of VIVOTEK's products and technology,



which David clearly demonstrated during his role as the lead of R&D and Project Management. He also has a recognized ability to set strategy, lead large teams and drive growth and innovation at great scale."

"I am honoured to have been chosen by the board to lead VIVOTEK USA into the next exciting era of the Company," said David Liu. "VIVOTEK's focus in product and technology development has helped to establish us as a leader in IP surveillance, and I look forward to working with our executive team and our employees in driving growth for our Company."

David Liu has a very outstanding academic background and specializes in Telecommunication Engineering. David Liu joined VIVOTEK in 2006 and has demonstrated his ability over a wide range of leadership positions in the company. He is extremely experienced in product customization, project consultancy, training, and customer relationships. Since 2012, he has served as the lead of project management and has had key roles in winning large-scale complex projects in global markets. For more information, visit www.vivotek.com. **SST**

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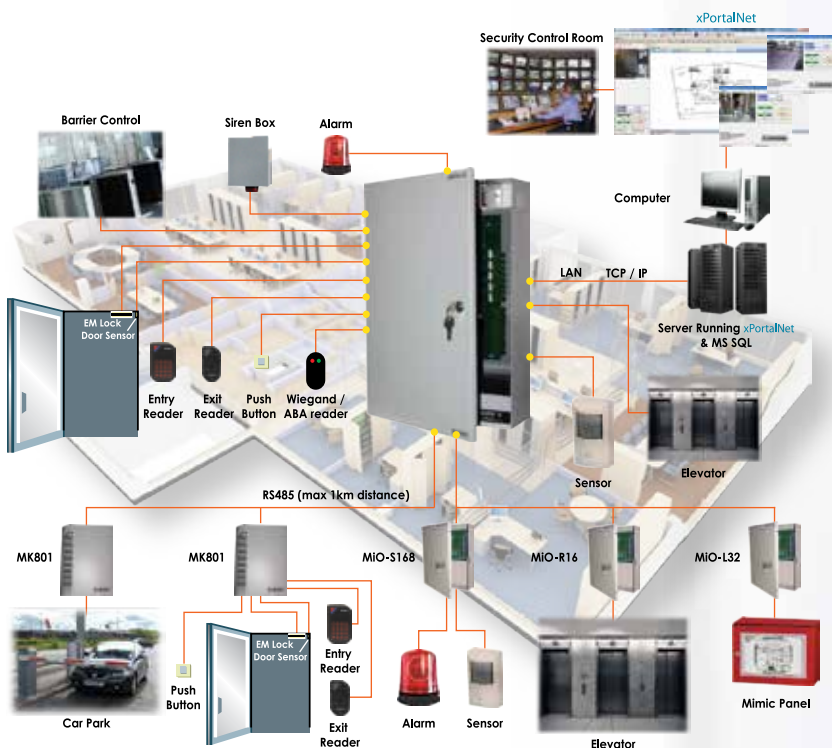
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ADANI Launches New Integrated Door Access Full Body Scanner

ADANI, a market leader in transmission x-ray full body screening systems, has officially launched the new Compass DA integrated double door access full body scanner. The Compass DA (Door Access) offers an integrated access control solution which has the capacity to detect a wide range of organic and inorganic objects concealed under clothing, in bags or hidden in the anatomical cavities of inspected individuals. The product is one of the latest and most advanced versions of the internationally successful ADANI Compass full body scanner. The Compass DA has the following unique features which highlight its advantages as a tool for enhancing security:

- Discrete selective scanning of visitors and staff
- Opportunity to hold a suspect inside the booth
- Remote operation
- Bulletproof construction option
- Integrated two-way communication and internal CCTV option



The Compass DA offers users the most flexible and advanced full body scanning solution on the market. The system can be integrated into existing entrance infrastructure and access control system, therefore providing maximum effectiveness and improving efficiency of operational procedures of the security checkpoint. This model of full body scanner is designed to be used at VIP facilities, military bases, critical infrastructure sites and any other applications where there is a need for the highest level of security and visitor inspection. The advanced technology used in Compass makes screening safe for operators and individuals being scanned. All Compass systems are compliant with ANSI 43.17-2009 regulations and that justifies its use for general public. For more information, please visit www.adanisystems.com **SST**

Raytec 'Light Fight' Videos Evaluate Current Night Vision Technologies

All cameras need adequate lighting to generate high quality images during the hours of darkness. No Light = No Picture.

But with multiple night vision technologies in the market today, security professionals often ask the question - 'why does my camera need dedicated CCTV lighting at night?'

To help the industry achieve a deeper understanding of night vision, Raytec recently showcased their new "Light Fight" videos at IFSEC. The five practical videos compare the relative performance of Raytec Stand-alone LED lighting against competing night vision technologies and highlight how each technology impacts CCTV during the hours of darkness. Competing technologies include: Thermal, Low Light Cameras, Street Lighting, Integrated IR Cameras and PTZ Cameras with in-built IR. The videos clearly demonstrate the pros and cons of the various technologies using real, night-time footage, and explain how some of the technologies are complimentary to one another.

LOW LIGHT CAMERA NO IR **VS** **LOW LIGHT CAMERA WITH VARIO IR**



"It is vital that installers and end-users have sufficient information to make informed decisions – especially with regards to the low light performance of their CCTV system. The Light Fight videos are designed to provide them with the practical experience and knowledge they require to select the most appropriate solution. Visitors to IFSEC really appreciated the insight that these videos quickly provide in a practical, straightforward manner" said Buzz Coates, Raytec's sales director. For more information, visit www.rayteccctv.com. **SST**

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IndigoVision Celebrates Winning Third Consecutive World Cup

Continuing successes in Germany 2006 and South Africa in 2010, IndigoVision's IP video surveillance solution was deployed in order to allow staff from the Local Organising Committee (LOC) in Rio de Janeiro to monitor all 12 FIFA World Cup Stadiums from their control room.

IndigoVision's solution was also deployed in the regional control room located in each of the 12 host cities along with two master control rooms, which were developed by the Brazilian Ministry of Justice's Special Law Enforcement Secretary specifically to support major events. This meant that every single security camera used for Brazil 2014 could potentially be monitored from any control room, in any city. Few security systems can deal with challenges like these, but IndigoVision have extensive experience in this field having provided solutions for the South African and German World Cups along with five Olympic Games.

"Integrating the various stadiums' existing systems is a major requirement," stated Lopez Martin, IndigoVision's regional director for Latin America, "Often stadiums have their own security systems; security cameras, intrusion detection, fire alarm systems, perimeter detection. To simply replace them all would be impractical and expensive. The open nature of IndigoVision's solution means it's easy to integrate and manage these systems in a single security solution, making operator response faster, reducing installation time and lowering project cost.

However, the greatest benefits of IndigoVision's solution may be yet to come, as the highly scalable nature of IndigoVision's solution will allow it to grow and adapt as the users' needs change after the world cup. "Regeneration is an important issue for any major event like this," concluded IndigoVision ceo Marcus Kneen, "The great thing about our solution is that it so easy to scale and reconfigure as the use of the facilities changes. For example, after the 2006 World Cup in Germany, Stuttgart expanded the solution used for the tournament to monitor all transport routes within a 30 kilometres radius of the stadium. It's really rewarding to think that the people of Brazil will still be able to benefit from IndigoVision's solution long after the World Cup has ended." For more information, visit www.indigovision.com. **SST**



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Bosch Security Systems Holds Product Launch Event In Singapore For New DINION IP 4000/5000 Cameras

Bosch Security Systems recently held a product launch event in Singapore with their distributor, Spiraltech Pte Ltd., for their new DINION IP 4000/5000 Cameras, a range of ready-to-use, complete network video surveillance cameras for businesses, retail environments and more.

Product Marketing manager, Eric Ho presented the key features and highlights of the two new cameras and how they can be applied where high performance and aesthetic design are important. Sales and Marketing manager Ng Tiong Peng, did a live demo, featuring intelligent Dynamic Image Noise Reduction (iDNR) which automatically adjusts the level of noise reduction based on movement in the scene. This ensures crisp images and saves up to 50 per cent on bit rate and thus storage requirements, considerably lowering storage and overall system costs.

Both cameras offer an attractive range of features with regard to the highest image quality, management of bit rate, and lowest storage requirements, as well as important audio capabilities, plus easy and cost-effective installation. Taking image quality first, the cameras are available in two resolution versions: the DINION IP 4000

HD with 720p and the DINION IP 5000 HD with 1080p. Bosch's main focus is in creating intelligent IP video solutions that fit your needs and providing images that contain only relevant information.

The last part of the live demo included a demonstration of how video footage can be easily viewed via the Bosch Security App or over a computer with the Bosch Video Client (BVC) that comes free with the cameras. The BVC comes with more advanced features that allow reliable and easy management of video data.

"The two new DINION IP HD cameras are ideal for small and medium-sized enterprises where both professional security and appearance matter," explained Eric Ho, Product Marketing manager Video Systems at Bosch. "Their aesthetic design makes them ideal for seamless and discrete indoor installation, offering maximum security for people and property while simultaneously respecting the building's architecture. They demonstrate that high performance and aesthetic design can be made affordable for everyday video surveillance applications."

For more information, email Bosch at enquiry.apr@sg.bosch.com or visit www.boschsecurity.asia. **SST**





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*Photo courtesy of VSL Infrastructure Protection, Installer

Dahua HDCVI Camera Receives Prestigious 2014 PROTECTOR Award

Dahua Technology, a world-leading manufacturer and supplier of video surveillance products headquartered in Hangzhou, China is proud to announce that its two-Megapixel 1080p Water-proof HDCVI IR-Bullet camera DH-HAC-HFW2200E received the Best of Camera PROTECTOR Award 2014 after rounds of competition and voting.

The 1/3-inch three-Megapixel CMOS adopted camera supports 25/30fps@1080P and 25/30/50/60fps@720P real-time recording. The camera also supports IR LEDs of effective range of 20 metres for poor-lighting conditions, and its special Smart IR technology realizes intellectual IR lighting adjustment to meet different surroundings. HAC-HFW2200E's elegant design satisfies surveillance purposes around exquisite décor, and its dark glass makes the camera quite converted as its internal LEDs are invisible during daytime.

Furthermore, Dahua works together with HDcctv Alliance on HDcctv 2.0 AT, delivering true HDTV signals over any legacy CCTV coaxial cabling, along with plug 'n' play up-the-coax remote control. HDcctv 2.0 AT, in particular, provides the means to upgrade any analogue system to HD quality video with remote control without



disturbing the legacy infrastructure.

"We feel honored that HDCVI camera is received this award," said Tim Shen, marketing director at Dahua Technology. "We really appreciate that through Protector magazine and its readers, HDCVI has been proven to deliver all its advantages and received great acceptance from the market. We will also continue to hold an 'open' attitude for more parties to enjoy HDCVI, including manufacturers, either providing module or chipsets. Based on the success we had in government, banking and safe city projects, HDCVI is the true Analog HD solution 'in use'." For more information, visit www.dahuasecurity.com **SST**

LILIN Launches Push Video App LILINViewer

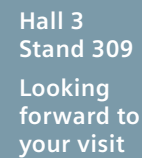
LILIN, one of world's biggest security surveillance companies, recently announced the launch of Push Video app for iOS and Android platforms, called LILINViewer. LILINViewer takes a step beyond conventional CCTV systems as it provides a real-time alarm system which pushes the actual video feed of any disturbance into iPhone / Android smartphone device or iPad tablet whenever there is a suspicious motion movement.

A break-through innovation in video and intrusion alarm systems, LILIN Push Video app, LILINViewer, was designed keeping in mind the safety of children as well as senior citizens. It can connect to up to 120 cameras maximum, and live viewing from 1, 4, 6, or 12 videos in real time. Capture screenshots of videos from iPhone/iPad, and digital pan-tilt-zoom is supported. LILIN speed dome can be controlled its PTZ and pre-set 1-4 function from LILINViewer. LILINViewer application is a powerful business intelligence tool for retail stores. A user would get an accurate and instant notification with an option to view the real-time video playback to assess the situation. With LILINViewer, users can move freely and still do their daily activities without constantly worrying about security of their valuables. Aside from securing residential houses, LILINViewer is an ideal system for retail stores stocking products and those situated in crime-sensitive areas, can also secure their premises through LILINViewer app. The product is tailor-made for those who require remote managed services with video alarm system, rather than just a surveillance tool. In case of an undesirable event such as burglary, an emergency response is automatically triggered by LILINViewer and a copy of the video is served on the LILIN server as well.

Portable mobile devices are becoming an intrinsic element of today's life; applications on the move are the most efficient way to provide users the peace-of-mind and convenience they need. LILINViewer app is now available for download on the App Store or Google Play Store. For more information, visit www.meritlilin.com. **SST**



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Today's megatrends such as urbanization and globalization continue to impact on society through the ever-increasing mobility of people and goods. The challenge for airports as gateways to the wider world is to efficiently accommodate the demands of the escalating passenger and cargo traffic. In addition to this, ensuring the absolute safety and security of passengers, staff, airport assets and infrastructure remains key at all times.

To help airports meet today's challenges and comply with regulations, Siemens provides reliable and customizable security solutions and services covering all aspects and areas of today's airports. Operators and passengers alike are able to benefit from state-of-the-art technologies and comprehensive services from a single source including risk assessment, consulting, planning, implementation, maintenance and future upgrades.

Answers for infrastructure and cities.

Artesyn Embedded Technologies Announces New Series Of 20W High Density DC-DC Converters For Industrial And Rugged Applications

Artesyn Embedded Technologies, formerly Emerson Network Power's Embedded Computing and Power business, recently announced the new AXA series of compact 20 W high power density dc-dc converters designed to be used in applications such as battery-operated equipment, instrumentation, distributed power architectures in communications and industrial electronics and other space critical-applications. A fully potted and metal cased construction makes the Artesyn AXA series an ideal choice for harsh environments and enables the modules to operate between minus 40 and plus 85 degrees Celsius. An optional clip-on heat sink is available to extend the thermal performance of the unit in a convection or forced-air environment.

Artesyn AXA series modules cover an ultra-wide 4:1 input voltage range of nine to 36 Vdc and 18 to 75 Vdc. The first models available offer single output models with voltages of 3.3, 5, 12, 15 and 24 V along with dual output models offering +/- 12 or 15 V, all with tight output voltage regulation. Enclosed in a 1.0 x 1.0 x 0.4 inch (25.4 x 25.4 x 10.16 mm) package, the Artesyn AXA series offers up to 89 per cent efficiency.

The converters offer additional features such as overload protection, remote on/off control, input-to-output isolation voltage of 1500 Vdc, and the output voltage can be trimmed by +/- 10 per cent of the nominal output. All models are approved to CSA/NTRL/IEC/EN 60950-1 for IT equipment. The new AXA series is available through the company's global channel network or directly from Artesyn. For more information, visit www.artesyn.com **SST**

Covering All Distances With Acti's Latest 30x Zoom Box Cameras

ACTi recently announced the release of their newest Zoom Box with one-megapixel and two-Megapixel/1080p resolution from the I Series – the I24 and I25 respectively.

Equipped with powerful 30x Optical Zoom lens and Auto focus, these box cameras can monitor the scene in either wider view or zoom in to see a suspicious item that is over 200 metres away. For example, they can monitor the overall activities in production line then zoom in to have closer look if there is any defect happening. Moreover, ACTi Focus Technology allows the lens to zoom and focus faster and more accurately than would be possible with a manual/remote focus system, so you will not lose any critical moment.

Powered by a CMOS sensor with excellent low light sensitivity, and coupled with ACTi's unique ISP, these cameras can produce an image with extremely clear detail in colour mode even under low light conditions, giving you the ability to clearly see colour data in lighting conditions where other cameras have long since gone to Black and White. The Extreme WDR feature also helps to deliver clear image details under high contrast environments, such as building entrances or rooms with large windows. With powerful zoom lens, high-speed auto focus and exceptional performance under low light or high contrast lighting conditions, ACTi's Zoom Box and Bullet cameras are ideal for many types of installation:

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INTELLIGENT INTEGRATION – A CRITICAL STEP FOR CRITICAL INFRASTRUCTURE PROTECTION



By: David Aindow, Product and Technology Director at Synectics

Critical Infrastructure Protection

Critical Infrastructure Protection (CIP) is the “preparedness and response to serious incidents that involve the critical infrastructure” of a town, city or entire country. It’s not a new concept but it is one that has evolved massively, not least because what we think of as ‘critical infrastructure’ has changed dramatically in recent years.

Changing world, changing needs

Previously, the term referred to the physical assets and systems that allow

a town, city or country to function, for example power distribution networks, road systems or water supply. But critical assets are no longer purely physical. Whether it’s the IT systems that control traffic flow, the data centres that hold our bank, health and identity details, or the air traffic control solutions that monitor our skies, cyber assets are just as vital to social, operational and economic wellbeing.

Physical attacks on government, finance or transport facilities remain a major concern but a CIP plan that fails to also address the digital flow of information that touches citizens’ lives on a daily basis, fails to be an adequate plan.



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This seismic shift in the scope and scale of critical infrastructure necessitates change. It calls for a new, holistic approach to security monitoring and control. One that can only truly be achieved through intelligent integration.

What makes intelligent integration different?

Those involved in CIP will be familiar with the benefits of security systems integration – the bringing together of multiple systems (CCTV, perimeter security, access control, emergency alarms etc.) into one single, unified command and control environment. The sector has often been at the forefront of trends in this field, from

using IP based surveillance networks to adopting HD camera technology.

But intelligent integration takes the concept to new levels, moving from data collation to data analysis. Visual and audio data, alarms and any number of unrelated platforms and sub-systems, from multiple geographical locations, can now be brought together into a single monitoring and control environment that is programmed to recognise anomalies by analysing and cross referencing data patterns.

While modern critical infrastructure is by nature complex, and the mounds of data generated from disparate systems potentially unmanageable,

intelligent integration can deliver unprecedented levels of situational awareness, providing an effective and vital mechanism for distinguishing real threats from collective 'noise'.

Asia Pacific boom in critical infrastructure

Globally, there has never been a more distinct need for effective CIP. Estimates suggest that 3.4 billion people live in urban environments worldwide and that figure is growing, a fact which has seen critical infrastructure investment rocket.

Nowhere is this more evident, than in the Asia Pacific region.



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The emerging Asian economies are expected to grow by almost seven per cent per annum between 2014 and 2018, with tourism central to this. Having the right infrastructure in place is critical to fulfilling the needs of native residents but also to attracting visitors. It's why there has been notable upturn in government infrastructure spending in countries such as Indonesia and the Philippines. In fact, a historical failure to invest in infrastructure in line with economic expansion is often cited as a reason the Indonesian economy has not performed as well as it might on the global stage. Recent investment levels suggest this 'former wrong' is well on the way to being put right.

Thailand and Singapore have also undergone significant transformation through infrastructure spend. Bangkok and Singapore have two of the most impressive infrastructure systems in the world. Both these cities recognise that investment in critical infrastructure includes the need for protection. Consequently, they too are benchmark cities for CIP and intelligent integration.

Singapore, for example, has just finished testing new technologies including a 'Pervasive Display Network' that unifies city-wide digital displays (belonging to different businesses and organisations) through integrations that permit a centrally controlled emergency message to be broadcast in emergency/crisis scenarios. A city-wide platform has also been trialled which integrates multiple analytics engines - monitoring visuals, sound, smell and temperature - into a single environment, in order to identify abnormalities that could alert authorities to threats ranging from flood risk to damaging sound levels at public events.

The practical benefits for CIP teams

As the Singapore examples demonstrate, intelligent integration is



about achieving superior situational awareness.

CIP plans are based on decision processes. Feeding the most accurate data into that system is the best way to ensure those decisions are based on facts, not assumptions. Intelligent integration facilitates this by sifting data, from multiple source-streams, for important correlations or discrepancies and presenting the outcomes as a dynamic dashboard that operators can interrogate to make informed decisions.

Imagine the following: an Automatic Number Plate Recognition (ANPR) system records a stolen vehicle entering an airport parking lot; airport security teams report an item of luggage that has been unattended for over ten minutes in the main terminal; traffic control reports a broken down car blocking the main exit routes from the airport.

Individually these elements suggest little threat to critical infrastructure. Collectively, they could suggest imminent risk warranting immediate investigation by operational personnel

and possible airport evacuation/closure. Having a system in place that recognises and makes sense of data means that such correlations can trigger alerts and standard operating procedures (SOPs), for security teams to interrogate further in order to make informed decisions.

Achieving situational awareness in this way, and utilising tailored SOP triggers, also helps guarantee response consistency. Operators are guided through workflows that deliver maximum safety, security and efficiency in each particular emergency scenario. Each action is also logged and married with the data accessed to provide a detailed audit trail, which can then be used for training purposes and future CIP planning.

Multi-agency communications

One of the most important collaborative opportunities that intelligent integration presents is for cross-city communication and CIP action plans incorporating multiple agencies responsible for a town or



city's physical, cyber, economic and social stability.

Consider the following event: An explosion occurs at an oil refinery located just outside a major city. Emergency teams are called to the location. They can control the fire but they can't control the smoke which, given the strong winds, is heading towards the city airport. One of the city's largest schools also sits in the projected path of the potentially toxic smoke and in less than an hour children will be leaving for home. If this information isn't shared, citizen health is at severe risk and air traffic chaos is likely.

Now consider the same event again. A fire alarm is triggered at the refinery. In the on-site command and control centre, this automatically streams visual feeds from the nearest cameras and readings from chemical detection sensors.

The operator can see the location of the fire and receives confirmation that hazardous smoke has been detected. A workflow prompts the operator to instigate evacuation procedures, call

the fire department, lock-down key site zones and check wind direction with the city weather station.

On confirming that wind speed and smoke density pose a threat, the operator is then prompted to call air traffic control, and the city police to issue 'stay-indoors warnings'. Receiving the information, air traffic control know they have two hours before smoke from the fire is likely to start impacting on flights and are able to instigate emergency planning protocols.

A safe city, is an informed city. Command and control solutions that deliver true situational awareness are therefore key weapons in the CIP armoury.

Meeting future needs

Modular command and control solutions, operating over an IP network, which 'glue' critical systems together can be scaled up as required. For developing economies investing in critical infrastructure, this adaptability is hugely advantageous. It makes financial planning easier

and allows infrastructure protection planning to keep pace with economic growth without the need for costly 'rip out and replace' scenarios.

As for individual integration capabilities, the critical infrastructure market will continue to benefit from advances in technological capabilities. Radar, piracy, safe room and absolute positioning integrations are among the most recent innovations to impact the sector. On the horizon, social media integrations are also likely to become more commonplace – particularly video and photo sharing platforms. We've already seen the potential for this with incidents such as the 2011 UK riots where police used social media as a data source for immediate incident response and post-incident investigation.

Intelligent integration through intelligent partnerships

The integration capabilities discussed here are deliverable now. All those responsible for critical infrastructure protection in towns and cities across the globe, but particularly those from countries experiencing infrastructure-led growth, have a real opportunity to take advantage of technology to safeguard their communities. But there is a crucial caveat.

Customisation is key and that can only come from software suppliers developing effective relationships with end-users. Command and control solutions can be configured to deliver integrations and workflows that meet exacting requirements, but tailoring to that level requires a thorough understanding of needs. 'Off-the-shelf' in the world of critical infrastructure protection simply won't deliver desired results.

Technology is only part of the equation. Intelligent partnerships enable the intelligent integrations that can truly revolutionise the way CIP professionals do their jobs. **SST**



Nuclear Security Summit 2014 In The Hague With The DCN Multimedia Conference System From Bosch

The Hague in the Netherlands provided the setting on March 24th and 25th for the third Nuclear Security Summit (NSS). During the two-day conference, 58 world leaders – including Barack Obama, Angela Merkel, Xi Jinping and David Cameron – were seeking to improve cooperation in the prevention of nuclear terrorism around the globe. As well as the presidents and prime ministers taking part in the discussions, the conference in the

World Forum Convention Centre in The Hague was attended by around 5,000 delegates and 3,000 journalists.

To facilitate communication between the 58 world leaders, the Dutch company Jacot Audiovisueel from Nieuw-Vennep, was entrusted with the project and installed a state-of-the-art solution in the main conference hall: the new DCN multimedia Conference System from Bosch. This



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comprised a central DCN multimedia Audio Powering Switch and, for each participant, a DCN multimedia conference device equipped with a touchscreen combining audio, video and meeting content as well as internet access, a two-way loudspeaker and



of conferencing experience”, said Kris Van den Bossche, project manager at Bosch Security Systems. For the NSS, the following functions were primarily used: audio conferencing, video playback and voting. In cooperation with Jacot we also developed additional functions to make the system a completely tailor-made solution. For example, Prime Minister Mark Rutte could activate and deactivate the microphones of each individual conference member using a synoptic panel with a touch screen.” Nonetheless, it took some courage to make it the centrepiece of the entire production: “It was, after all, brand new,” pointed out Calvelage, “and the system delivered as expected”.

a microphone with a speaking distance of 60 centimetres. Even with the sophisticated technology, DCN multimedia conference devices are very easy and intuitive to operate. “The NSS summit was one of the most significant and demanding projects for us,” commented Michel Calvelage, managing director of Jacot Audiovisueel, “so we invested our entire capacities and know-how in it. At the end of the day, it was worth it because we received a lot of praise – even from the prestigious conference members.”

new possibilities of the system that we could integrate into the overall solution. It was a process, sometimes hard to manage, but characterized by real flexibility.”

The arguments for using the DCN multimedia Conference System from Bosch were its unique features and ease of use. “With its wide range of features – such as paperless conferencing and audio, video and meeting content on a user-friendly touchscreen, the DCN multimedia System offers a new kind

Everything worked flawlessly: there wasn’t a single malfunction. Furthermore, at this summit of world leaders the DCN multimedia Conference System was able to fully demonstrate its advantages and possibilities. The organizers had originally assumed, for example, that it would be necessary to place conference monitors in the centre of the room – an expensive solution that, besides increasing the number of possible sources of error, would have considerably detracted from

The Jacot Audiovisueel team invested extensive time and effort into the project and naturally demanded the finest equipment for this unique project. At the same time, redundancy for the entire system – just in case a technical problem should arise – was also imperative. The organizers of the NSS 2014 placed enormous trust from the outset in the expertise and experience of Jacot Audiovisueel, urging the company “to participate proactively in the project”. Their confidence had an extremely positive effect upon the motivation of the employees of the installation company, as Calvelage recalled: “We kept refining details and discovering





the ambience – but this was not the case. “Through the use of DCN multimedia conference devices with their integrated touchscreens, microphones and loudspeakers as well as a camera tracking system which placed each speaker perfectly on the screens, we were able to

dispense with monitors altogether,” said Calvelage. “We fed the images directly to the touchscreens. It worked perfectly.”

Van den Bossche added, “For events such as the NSS, the quality standards for the equipment used – not only in

terms of security – are extremely high. That such a high-end summit as the NSS is confident to rely on our new DCN multimedia system confirms that it meets the highest standards.” Of all the praise, the most gratifying came from the Prime Minister of the Netherlands, Mark Rutte, who was hosting NSS 2014. “He was highly impressed with the performance provided by Jacot Audiovisueel and felt that we had projected a true image of the Netherlands as a technologically advanced country.”

DCN multimedia Conference System

DNC multimedia is a new conference solution based upon the new media networking architecture OMNEO developed by Bosch. The equipment includes multimedia conference units equipped with a touchscreen employing a version of the Android™ operating system.

*For more information, email Bosch at: enquiry.apr@sg.bosch.com or visit www.boschsecurity.asia **SST***





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MAXIMIZING THE POTENTIAL OF AIRPORT SECURITY SYSTEMS



By: Steve Batt, Market
Manager Airports,
Siemens Building
Technologies

Airports Today

With global passenger and cargo volumes on an upward trend, today's airport operators are increasingly faced with runway and terminal capacity constraints. Logistical challenges often hindering efficient passenger flow, higher capacities in airfreight volumes, as well as expected cost efficiency initiatives, are putting a growing strain on airport resources and infrastructure. Airport operators are expected to provide a safe and secure environment but, in doing so, they must also comply with ever-stricter legislation and satisfy expectations of passengers.

Commercially, airports must bring about a maximum return on investment (ROI) for stakeholders. To do so, airports strive to remain effective, efficient, attractive and successful, ensuring continuous competitiveness in a truly global marketplace. They need to retain the loyalty of passengers, the support of the relevant airlines and concessionaires and, in addition to traditional aviation income, generate healthy non-aviation revenues.

Adopting the latest technology

The opportunity of developing a new-build project on a "Greenfield" site, installing only the latest technology and optimum processes, with the ability for a selfish focus on bespoke services and class leading facilities, without having to consider established installations and legacy systems, does not arise very often.

The majority of international airports have evolved over a lengthy period of time and generally comprise a host of different operational systems and processes including safety and security, baggage and cargo, airfield lighting, building technology and energy management systems to

name but a few. Throughout its lifecycle, the management of this often disparate and ageing infrastructure requires a host of different and isolated resources and is certainly not in keeping with the streamlined operational practices expected in today's cost sensitive environment.

New technologies and solutions tailored to airport applications appear to be emerging at a bewildering rate, and although trying to keep pace, it is not always viable for airport operators to gain maximum benefit from these evolutionary innovations. Siemens is leading a new trend towards more flexible, future-proof solutions through intelligent integration using open and common standards ensuring the full benefit of the latest solutions to all airports is a real possibility. Based on over 50 years experience in the airport sector, Siemens is only too aware of the key issues impacting on airport infrastructure whenever new additions or alterations are made; these include, amongst the most critical, the backward compatibility and integration of new, innovative safety, security and operational systems throughout all areas of an airport.

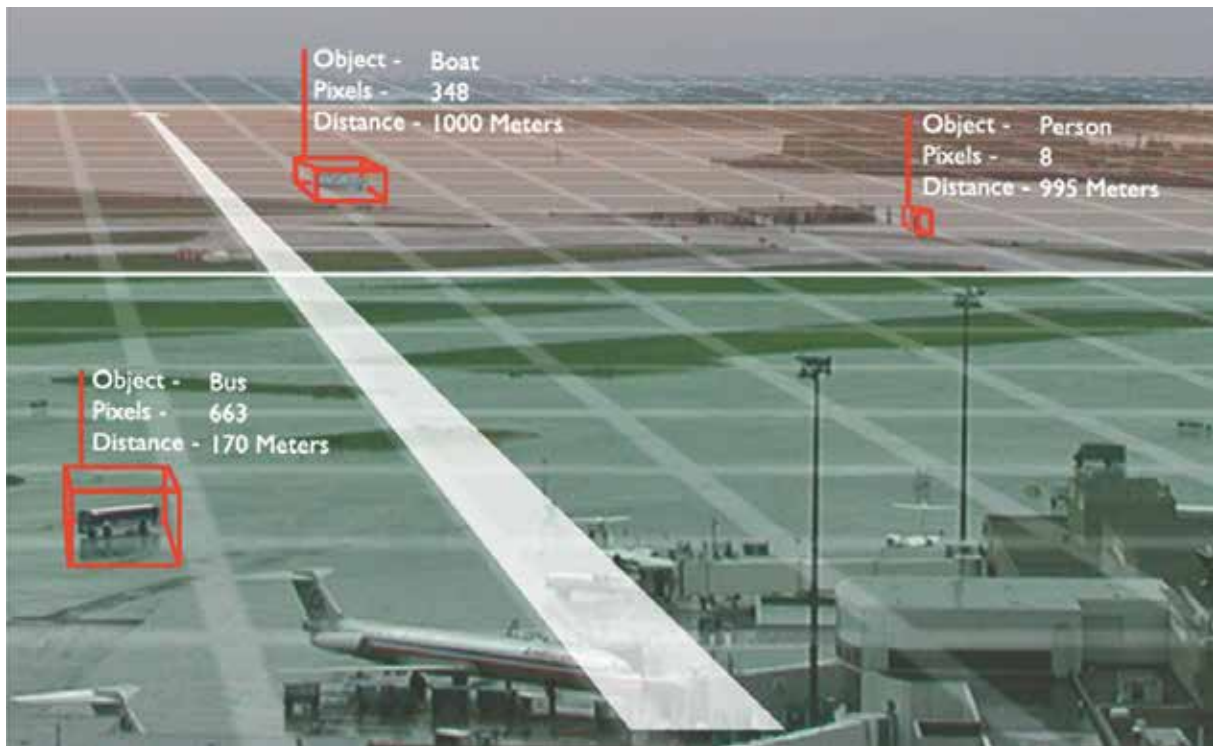
Standards for sustainable infrastructure

Only a very limited number of specialist players in the security industry have actively been involved in the challenge of adopting open standards, offering airport users flexible, intelligent, effective and efficient solutions. With its proven industry track record and its active participation in the development of open standards by organizations such as ONVIF and BACnet, Siemens has already introduced standardized interfaces in previously stand-alone systems. The company brings an understanding of complex operational and airport security processes and a commitment to create efficient infrastructures fulfilling the highest customer expectations. Its comprehensive approach helps airport operators to maximize ROI, ensure long-term profitable operation and meet all regulatory requirements.

Integrated security solutions

Siveillance™ Vantage from Siemens is the command and control software platform specifically designed for airports and other critical infrastructures. It utilizes automated, workflow-based scenario management to support security staff in ensuring the highest degree of around-the-clock protection.

The system allows differing technologies such as access control, video surveillance, fire detection and suppression, building automation, emergency call, telephone and



radio communications to integrate and interoperate seamlessly. This consolidation of sub-systems into a single software platform provides airport security managers with enhanced situational awareness. It also enables more streamlined operations and a faster coordination of the most appropriate response, crucial in all airport master plan strategies. The platform is a modular and scalable set-up and can be adapted to the specific needs of any airport.

Siveillance Vantage from Siemens offers comprehensive yet user-friendly operation through web-based interfaces and graphical visualization. It can be used to enforce airport resource management as well as for routine service and maintenance activities. The platform is also able to assume the management and deployment of relevant security personnel along with control centre management staff. The solution is able to display all available local and immediate response resources, graphically



indicating their actual and real time position together with additional crucial data such as time to incident and resource allocation.

As an integral part of the Siveillance family from Siemens, Vantage is a future-proof solution, offering proven, reliable, scalable and efficient security management and, of course, a complete service portfolio to support the airport operator throughout the system's entire lifetime.

Transforming traditional surveillance

The situational awareness of any airport can be further enhanced by the integration of Vantage with Siveillance™ SiteIQ Wide Area - the solution for a smarter use of traditional video surveillance coupled with intelligent video analytics, offering a total airport perimeter and outfield surveillance platform from a single screen.

Using customizable security policy zones and virtual barriers, SitelQ continuously monitors the devices from critical airport areas, combining camera and other sensor data, (access control, intrusion detection, fire detection etc.) displaying all relevant alarm and incident information on one comprehensive digital map of the entire site. SitelQ collects, interprets and displays the input from the various systems, leveraging existing equipment and providing unprecedented continuous supervision of the complete airport. It automatically brings security incidents to the attention of security staff at the earliest possible stage and, in turn, not only prevents the development of the event in question but also alleviates disruptive and costly operational downtime.

The virtual barriers, which form the basis of alarm detection, can be created to suit any size and even span across sea, lakes and other bodies of water. An unlimited number of virtual alarm trigger zones can be configured and are scalable in terms of security classification according to the policies of the particular airport. All such configuration is carried out at the security control location and can be dynamically adapted and re-configured. Integrated 3D analytics within the platform determine object attributes in absolute 'real world' coordinates, requiring fewer cameras than traditional 2D analytics. Unauthorized activity is detected and alerts are automatically triggered. The system pinpoints the exact location to enable a fast, efficient and appropriate response. SitelQ then automatically tracks all further activity, following the unfolding incident as it happens in real time. Multiple cameras can be manually or automatically controlled to track one or several objects at the same time. Whenever necessary, guards are alerted through audio and video notifications as well as email alerts - and their rapid and effective

deployment should prevent the further escalation of any incident or threat to security.

The open architecture of the software makes it possible for SitelQ to run on standard hardware with standard operating environments and allows it to be modified and expanded to accommodate changing needs over any period of time. It allows the limiting of access to selected areas and the specification of varying security levels within a site. Levels can be raised or lowered depending on threat levels or evolving mandates in real-time.

Seamless integration between Siveillance SitelQ and Siveillance Vantage greatly improves the security of any airport.

Over one thousand airport solutions

Siemens understands airports. Whatever needs an airport might have - whether it is runway navigation

lights, baggage handling, integration of the airport's communication technology or sourcing of its energy requirement - Siemens provides viable, long-term solutions. The organization's global presence and expertise built up over the years have resulted in partial or integral technical solutions in over 1,000 airports throughout the world. With specially designed concepts and innovative solutions, Siemens is able to provide increased security and convenience for passengers and airport personnel and to optimize passenger and freight processes. Experienced and skilled project teams specify, design, install and maintain new systems and upgrade existing installations. The company also offers operating and service packages, fine-tuned to ensure optimum availability of all installations and systems throughout the entire lifespan.

Article courtesy of Siemens
Building Technologies
www.siemens.com/bt/airports SST



City Surveillance In High Resolution

Background

The City of Novi Sad is the capital of the northern Serbian province of Vojvodina and the administrative centre of the South Backa District. The city is located on the border of the Bačka and Syrmia regions, on the banks of the Danube river and Danube-Tisa-Danube Canal, and facing the northern slopes of Fruška Gora mountain.

Mission

City development and urban planning require a high level of commitment and simultaneous deployment of all available resources. The City of Novi Sad requested a proposal for the procurement of an IP video surveillance solution that would be flexible enough to efficiently perform precise video monitoring of public places both day and night.





The main objectives of the Novi Sad City surveillance system were to increase the common citizen's security by monitoring educational institutions (pre-school, school and university campus), as well as surveillance of the most important city infrastructures. Not only was a centralized event management software solution with real-time information alerts and on-demand reports required, but the provision of HDTV quality network cameras was of equal importance.

The Solution

In order to provide this solution the City of Novi Sad was equipped with Axis network cameras and Aimetis software for advanced video management and analytics. Due to innovative, leading technology and the widest camera model portfolio, Axis was chosen as the only network camera manufacturer, which completely covered all the requirements and specifications of this city surveillance project. Based on its seamless platform of video management and market-leading analytics, innovative licensing and easy-to-use interface, Aimetis Symphony was used for central management of the IP video surveillance system and video analytics. This state-of-the-art intelligent software along with Axis HDTV network cameras made the IP video surveillance system much easier to use.



The Result

Novi Sad made it clear that the safety of citizens right down to the youngest child was top priority. The implementation of IP video surveillance in the city of Novi Sad rationalized the use of existing resources, improved city traffic logistics and enhanced the safety of the citizens.

According to Vladimir Knežević, chief technical officer, JKP Informatika Novi Sad, "Over the past few years we have been very busy with the realization of ICT



infrastructure for the City. Now that this vast job is finished we have an optical network infrastructure right across Novi Sad. IP video surveillance with Axis network cameras was the next step in exploiting the full possibilities of this existing network. It is a huge benefit that the city of Novi Sad now has a centralized video data centre which is able to effectively conduct traffic and citizen safety everywhere.”

New challenges

For the first time in the history of city urban planning in Novi Sad, IP video surveillance was introduced as an infrastructural and integral planning component.

Video surveillance of large, open places such as major traffic intersections, university campuses and city squares, requires a superior camera. The cameras need to provide HDTV megapixel resolution, 16:9 aspect ratio and day/night functionality.

System scalability

JKP Informatika installed approximately 1000 Axis network cameras across the town’s optical network ring. The city surveillance system was designed from the very beginning to be extremely flexible and scalable. Due to different location specifics, and variety of outdoor lighting conditions a very special solution was deployed. The wide Axis product portfolio demonstrated the full potential that IP technology could offer. The IP video





surveillance system based on Axis network cameras was the perfect solution for securing city areas where greater image detail is essential.

With HDTV resolution and individually configurable camera frame rates, the City of Novi Sad has achieved a precise and well-optimized video surveillance system, with the possibility to scale upwards in the coming years.

With the Aimetis licensing model, by being able to mix and match the use of both Enterprise and Professional licenses and to add required number of licenses when needed, City of Novi Sad definitely invested in well-optimized and smart-scalable IP video surveillance system.



Data and video monitoring centre

For the purpose of storing video data, centralized event management and faster onsite response, Novi Sad constructed a data and video monitoring centre based on the latest technology standards.

The use of Aimetis software, the market leader in IP video software solutions, insured that the video analysis was successfully integrated as an important part of the data and video monitoring platform.

Along with the centralized management, Aimetis provided real-time information alerts based on multiple applications such as: motion tracking, object classification, people/vehicle counting, virtual fencing, left/ removed objects, dwell time, and auto-PTZ tracking.

Close cooperation with the Novi Sad police department lead to forming another data and video monitoring centre in police headquarters. This way the police can always oversee important city areas and can intervene more efficiently.

“Axis network cameras with HDTV resolution were definitely a justified investment. Today Novi Sad has a significantly high level of public safety and improved city logistics. The state of the art technology that we have implemented is now a representative example of good city surveillance for all the cities in the region,” said Knežević.

The city video surveillance of Novi Sad with approximately 1000 Axis cameras represents a milestone in the safety of citizens and a vast improvement of city logistics matters. This successful city surveillance project with Axis network cameras will be an exemplary model for other city governments who are striving towards better city development and growth in the future. **SST**

Tightening Airport Security Across 180 Acres



Background

Redlands Municipal Airport has been serving the area's aviation community since 1947. The general aviation airport spans 180 acres and serves more than 31,000 flights per year. A rash of avionics thefts prompted city officials, led by assistant public works director and airport manager Tom Fujiwara, to seek an affordable method to more effectively secure the expansive facility.

The Challenge

Fencing and two access gates controlled access to hangars and other restricted areas of the field. The gates were controlled by a standard non-networked card access system. A user could access the airport by inserting a card into the reader, which opened the entrance gate. Unfortunately, this traditional, non-networked electronic access control (EAC) system provided

no intelligence about who entered the gates and at what time. The system provided precious little useable data to support investigative or forensic efforts surrounding the avionics thefts.

Fujiwara faced several other challenges. The Redlands Public Works and Police Departments needed to manage and monitor the access control system even though their combined operations centre is six miles from the airport. Significantly, the airport is situated on an old rock quarry—making trenching out of the question.

The Solution

Fujiwara selected Ultra-Safe Security to perform Redlands' security upgrade. Ron Lander, Ultra-Safe's president, was able to overcome the location's design challenges by installing two wireless control panels, each outfitted with In and Out readers. The use of wireless control panels meant that no new trenching was needed. Such

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an installation plan enabled the airport to be operational throughout the four-week security upgrade.

Another plus from the new system was the Web-based interface. This gave Redlands tighter control over their multiple hangars. The system's ability to immediately register all activities and provide a digital audit trail—from routine access to failed attempts—and display them in a Web browser or text message meant that Fujiwara's eyes and ears were never more than a few seconds away from the activity at any gate. "If a location is experiencing

theft in a specific area, like the Redlands airport was, the access administrator could examine the logs and through a process of elimination determine the identity of the culprit. Brivo's notification rules were also helpful for the airport by having the system page or email the administrator whenever someone entered or exited the location," noted Lander.

The Benefits

With Brivo's wireless control panels, the airport did not need to trench to network all access point giving Redlands a savings of over \$10,000 and taking only four weeks of installation for the whole security upgrade, with no disruption to operations. Less up-front cost allowed city to keep more working capital in their pocket. Effective remote administration of the entire system improved event management and responsiveness by Redlands Public Works and Police Departments and saved considerable money in utilizing existing infrastructure.

The Web-based interface's digital audit trail and the instant email notifications of all gate/user events helped to eliminate theft of avionics equipment from airport property. There have been no equipment thefts since the Brivo ACS was implemented. Brivo's centrally hosted service eliminated the need for expensive IT resources to maintain the system and the networking infrastructure. **SST**





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Major Ministry In Nigeria Implements Fully Integrated Security System For The Country's Safety

Background

The Ministry of Finance, Nigeria oversees various financial and economic affairs of the federal government of Nigeria including managing, controlling, and monitoring all federal revenues and expenditures.

To ensure their country and its funds are secure, they implemented the CEM AC2000 SE (Standard Edition),

which provides high-end security for the site and was installed by CEM Approved Resellers Acti-Tech Ltd.

AC2000 SE offers the Ministry of Finance a fully integrated and comprehensive access control, alarms processing, and photo ID badging system. The system comes with a suite of applications including AC2000 VIPPS (Visual Imaging Pass Production System), which the Ministry of Finance found

particularly beneficial. AC2000 VIPPS application allows the Ministry of Finance to design their own ID badges and issue over 1500 permanent and temporary ID cards to staff and visitors.

CEM IP card readers

A range of advanced CEM IP card readers were installed throughout the building, including the CEM S610f fingerprint card reader. The



S610f fingerprint reader offers increased security by providing three levels of identity checks – ID card authentication, PIN check, and fingerprint verification. The reader allows the Ministry of Finance the opportunity to add an additional layer of biometric security where necessary.

Featuring a controller, card reader, and fingerprint solution in one device, the S610f is a fully integrated biometric and access control reader that is used as part of the AC2000 SE system. Fingerprint templates are captured on the AC2000 enrolment station at the same time as a cardholder's personnel details and images are captured and are then saved to the AC2000 server. Cards can then be issued and biometric templates distributed via the access control network, eliminating the need for an additional biometric network and software enrolment process.



The S610f offers advanced features such as an LCD to show user messages such as 'Access Granted', 'Card Expiring', and 'Wrong Time Zone'. S610f also uniquely features an internal database enabling intelligent decision making at doors at all times; even

when communication has been temporarily lost with the host system.

CEM Power over Ethernet solution "Utilising CEM's advanced range of hardware, the Ministry of Finance also chose CEM's high Power over Ethernet solution, the first of its kind in the industry" said Andrew Fulton, business development director, CEM Systems. The CEM DIU 230 (High Power over Ethernet Door Interface Unit) eliminates the need for both a main connection and a local power supply to the door. Utilising Ethernet infrastructure throughout the Ministry of Finance, the DIU 230 supplies sufficient power via the same Cat 5e/6 cable that powers CEM card readers, as well as reliably powers double magnetic locks that secure the doors.

According to Peter Madu, managing director of Acti-Tech, "CEM Systems offered great support throughout the project and provided an excellent solution to secure the Ministry of Finance. The fully integrated solution will allow the premises to run effectively and efficiently with the highest of security measures". **SST**



An Integrated ID Solution

ID Credentials: Based on the success of the U.S. Permanent Resident Card, or “Green Card” program, the Costa Rican Government selected credentials based on HID Global’s LaserCard® optical security media. The digital security of this tamper-proof and counterfeit-resistant technology has never been compromised. With this move, Costa Rica envisioned the emergence of a regional standard in ID documentation, offering world-class security and compatibility with the U.S and neighbouring countries.

Card Issuance: The government also contracted for the delivery of a complete ID management system via the company’s Professional Services group. HID Global’s end-to-end system controls the entire process, from data capture to credential issuance. The system was delivered on time and on budget.

A Major Setback for Mass Counterfeiters

Meeting Increased Security Imperatives

The front of the DIMEX card includes security printing and inks, and a hologram. The digital photograph and demographics of the cardholder are laser engraved and



are therefore highly tamper-resistant. The reverse side features an optical media stripe with an eye-readable laser-etched version of the information contained on the front, including the cardholder’s photograph, name, date of birth and registration number. This information cannot be erased or altered. Also, the cardholder’s portrait, demographics and fingerprint image are digitally encoded in the optical stripe and can only be read by a special securely designed reader.

Enhanced security and usability features make the DIMEX program one of the most effective of its kind in the world.

- **Secure Micro-Images:** Resolved at up to 24,000 dots per inch, micro- images provide overt, covert and forensic card authentication and exceptional counterfeit resistance.
- **Security Diffractive Image:** Covert security feature can be verified with simple Level II inspection tool.
- **Personalized Embedded HologramHD:** A high resolution, high contrast image of the cardholder is laser etched into the optical media — one of the most significant visual security components of optical card credentialing programs.

Features for Today’s Reality

- **Counterfeit Resistance:** The data recording process is physically irreversible, creating a permanent audit trail, and preventing fraudulent alteration. Additional safeguards are created by the tamper-proof “Personalized Embedded HologramHD”.
- **High Data Capacity:** The 1.7 megabyte optical stripe has more than adequate capacity to hold all required demographic and biometric information, and can be updated as needed.



- **Durability:** The laminated structure meets stringent durability requirements, as certified by independent laboratories, enabling a five-year lifetime for the DIMEX Card.
- **Low Cost Solution:** The combination of advanced technology, durability of construction, data capacity, and application flexibility deliver maximum return on investment.
- **Speed of Use:** In just a few seconds, all card information can be read. This includes all demographic data, colour photograph, and fingerprint files, and allows a biometric match to be made.
- **Updateable:** New biometrics or personal data can be securely added by authorized personnel to help prevent obsolescence and fraud.
- **Card Issuance:** A suite of demographic and biometric data collection and card issuance equipment and solutions, including:
 - Enrolment of approved foreign residents
 - Automatic fingerprint identification to prevent duplicate card issuance
 - Optical card printing and encoding servers
 - Card issuance controlled by HID Global's Biometric Verification System



The Realities of Inspection

For any ID card to be effective, it must be usable in a variety of situations. Optical media-based ID credentials enable authorities and inspection agents to make a confident judgment about card authenticity and visual identification of the cardholder, even where electronic readers are not available.

HID Global Government ID Solutions

Dedicated to delivering highly secure, custom government-to-citizen ID programs worldwide, HID Global's Government ID Solutions offer government customers an end-to-end source for their most demanding state and national ID projects. The complete portfolio of solutions includes expert professional consulting services, as well as Genuine HID™ data capture, card management and issuance solutions, world-leading credentials and e-documents, readers, inlays, pre-laminates, LaserCard® optical security media technology, and FARGO® card printers. With Genuine HID, customers benefit from the industry's broadest portfolio of trusted, interoperable secure identity solutions across all aspects of the government identification market. Genuine HID solutions are designed and built in ISO 9001 certified facilities, include worldwide agency certifications, and are backed by global product warranties. **SST**



The Ministry Of Finance And Customs In El Salvador Implements Measures To Improve Efficiency And Create Safer Borders

Background

The Republic of El Salvador is the smallest and the most densely populated country in Central America. El Salvador borders the Pacific Ocean on the south and borders by land to the countries of Guatemala to the west and Honduras to the north and east.

El Salvador is a country with an exceptionally high crime rate and has been rated "critical" for crime by the U.S. Department of State. As a result, the country requires high protection from the best security equipment available to safeguard society.

The El Salvadorian Dirección General de Aduanas (Customs Department) are responsible for controlling the export, import and transit of goods at all the country's border crossing and entry points, safeguarding the country against smuggling, the illegal trafficking of narcotics, weapons, contraband and any other illegal goods and substances into the country, along with detecting undeclared goods and associated tax evasion practices.

The most significant border entry and exit points for foreign trade in the country include the Guatemala and



Honduras land crossing routes at La Hachadura, Anguiatú, El Poy and El Amtillo, as well as the international airport at Comalapa, sea port at Acajutla and the Dirección General de Aduanas headquarters in the district of San Bartolo in the nation's capital.

The Challenge

Non-intrusive inspection activities are required to help in the fight to detect and locate threats and

pinpoint the movement of illegal goods. To prevent unnecessary barriers to global trade during this process, the control and inspection of traffic needed to be performed 24/7, without causing delays in Customs operations and procedures.

Corruption is a constant concern in El Salvador and is highly scrutinized. Therefore, to avoid any interference and potential collusion with fraudsters, all relevant data



and images of vehicle contents must be securely networked, analysed, managed and tightly controlled at the Customs Control Centre in San Bartolo.

The Solution

In conjunction with local partner Cotecna, Smiths Detection worked closely with Dirección General de Aduanas on the first turnkey multi-border inspection project to fully safeguard the country's borders. Consignments travelling through

the county are assessed for risk to determine the scanning requirements. An integrated approach allows the appropriate level of screening to be applied, ranging from re-checks on different X-ray systems to checks with handheld equipment to detect traces of explosives on vehicles and palletized cargo.

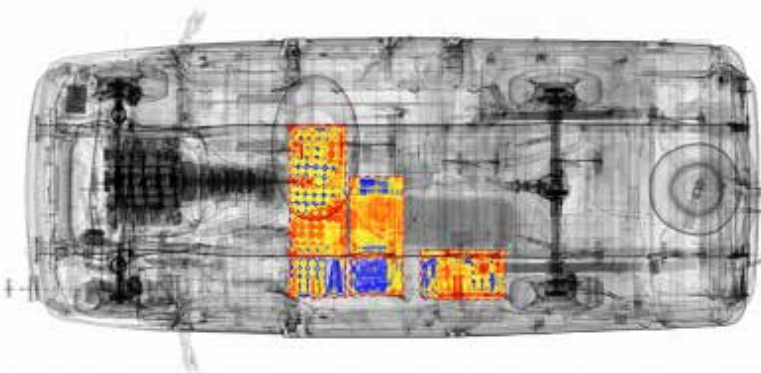
In total Smiths Detection supplied 21 systems to Cotecna, who financed their purchase, carried out extensive civil engineering and construction

works and subsequently operated them in-country. Three types of high energy scanning systems were specified: Relocatable HCVM T mobile vehicle scanners, for the non-intrusive inspection of cargo and vehicles, HCVL, for the automatic scanning of cars and light vehicles, helping highlight drugs, weapons and undeclared goods in passenger traffic; and HCVP standalone system for high throughput commercial traffic areas.

In addition HI-SCAN 145180 and HI-SCAN 180180 X-ray machines were required to inspect palletized freight and cargo at the Comalapa international airport and in bonded warehouses throughout the country. The small, handheld SABRE 5000 was also selected, to provide an additional layer of protection, helping to detect and identify trace explosives.

All the high performance X-ray solutions offer superior steel penetration, resulting in high-resolution images of vehicles and their contents for quicker analysis of results. Operators are able to perform timely and reliable verification of goods and quickly highlight suspect loads for further detailed manual inspection.

All inspection X-ray images and associated data are processed through a centralised DMS (Dataset Management Systems) and analysed online at the Customs Headquarters Control Centre. The on-site Cotecna operators are responsible for the scanning process, including checking and completing the dataset information (customs' declaration, ID container, vehicle license plate and weight where applicable). The verdict is automatically returned to the local scanning site, where local Customs officials proceed with the appropriate procedures.



The Result - Improved efficiency, increased tax collection and safer borders

Smiths Detection's integrated approach and Cotecna's operating know-how have resulted in a significant increase in the throughput of inspected traffic through the various border checkpoints at El Salvador by, reducing time associated with lengthy manual inspections. Illegal and undeclared goods have been highlighted and intercepted, increasing valuable tax revenue and ultimately impacting the security of foreign trade operations in El Salvador. *SST*



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Securing Colorado's Fourth Busiest Airport

Background

Rocky Mountain Metropolitan Airport, Colorado's fourth busiest airport, has more than 180,000 take-offs and landings each year. The airport is home to a number of flight and helicopter schools and is the North American headquarters for Pilatus Business Aircraft. At any one time there are more than 2,300 airport and service-related personnel who need access to all or part of the airport complex.

The Challenge

In a post-9/11 world, airport security is paramount. While the visible security focus is often the passengers boarding the planes, there are a host of other critical



security challenges in protecting the aircraft operating area, managing access to non-public parts of the airport, and controlling the many different employee groups and service providers to the myriad of businesses operating at the airport.

Rocky Mountain had originally installed an access control system that was cumbersome and highly inefficient: the wireless component did not work, so staff had to perform manual uploads and downloads at each of the different access points. Airport management sought an access control system upgrade that would be truly user-friendly, easy to maintain, and provide highly reliable wireless connectivity.

The Solution

Working with Protection One, Rocky Mountain chose to install Brivo ACS panels at all 13 airport gates. Eleven



of the gates are controlled by the wireless control panels and two by IP-based controllers. The wireless component is critical to the system's successful deployment because it kept the install price affordable, however there was no margin for error—it had to work. Miller commented, "Given our experience, I had my doubts about the wireless panels, but even with a really tough winter this year we haven't had a single problem."

In addition to daily access control operations, Miller and his staff perform a monthly audit to maintain tight control over the changing population of more than 2,300 badge holders. The airport also sought two additional features that were incorporated into the Brivo ACS solution: badging and 50 customer-definable fields. Due to the system's hosted architecture, it was easy to take the airport's specific requests and make them a reality in a short amount of time.

The Results

The system has met the airport's expectations in reducing man-hours and cutting overhead from an IT standpoint. Unlike Rocky Mountain's previous system, staff can perform track and query operations in a timely manner. As Miller put it, "All this control and functionality is available right at our fingertips."

The critical wireless transmission component has functioned flawlessly, even in deep snow and fog conditions. The system is programmed to provide



redundant alerts in the event of gate failures to both Miller and his staff, as well as the 24-hour agent-on-duty's cell phone. Such event notifications, set up by a system administrator, may be delivered via email, cell phone, or pager.

Remote administration of the entire system from any Web browser anytime, anywhere in the world. Brivo manages all IT maintenance of the system—eliminating the need for expensive IT resources or extensive technical expertise. Customer-specific demands for badging and extra definable fields were met in a full and timely manner. Total Cost of Ownership for a Brivo ACS is up to 50 per cent less than traditional PC-based electronic access control systems. Brivo ACS offers a powerful combination of system choice, ease-of-use, control from anywhere, proven performance, and excellent economy— making it an excellent fit for airports. **SST**



Italy's National Police Force Upgrades Its Citizen ID Cards



Background

After the introduction of the new Italian Citizen ID program in 2003, the Italian National Police Force (“Carabinieri”) mandated a similar standard in secure ID credentials by specifying HID Global’s LaserCard® optical security media platform, two chip technologies, secure printing and durable card construction for its new employee ID card. The cards extend the technology mix and system philosophy of the Citizen ID, plus they arm all police employees with a multi-technology, multi-purpose ID card that simultaneously serves as a citizen ID and provides secure access to key facilities and e-government services.

The Challenge

The “Carabinieri” polices both military and civilian populations, and engage in foreign peacekeeping missions and diplomatic protection. Historically, Carabinieri employees were assigned four separate credentials for ID, facility, services and information access. To overcome the risks associated with carrying multiple documents, and to further enhance its overall functionality, a single ID credential was needed to provide the highest levels of security, be compatible with the national ID infrastructure and serve a diversity of applications.

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Functional Goals

The new ID card needed to provide authoritative proof of citizen and employee identity, access to e-government services, logical access to civilian and military information systems, and secure right-of-entry to facilities.

Requirements

Watertight security and fraud resistance were key elements for the Carabinieri program. In addition, because of the card's multi-purpose nature, it necessitated a technology-inclusive approach. The cards also had to securely store large amounts of personal data, including employment, biometric identification and health information.

Fulfilling Modern Government Needs

The Carabinieri card is the most advanced ID card to utilize HID Global's tamper-proof and highly counterfeit-resistant Lasercard® optical security media technology. In a single platform, HID Global custom-designed a card structure that integrates optical media, covert and overt security features, and a contactless chip and antenna for facility access. The card is also fully ready for the embedding of a contact chip by HID Global's industrial partner Istituto Poligrafico e Zecca dello Stato (Poligrafico).

Meeting Today's Multi-Functional and Security Imperatives

Features for today's reality

- **Counterfeit Resistance:** The optical media data recording process is physically irreversible, additionally safeguarded by the tamper-proof "Personalized Embedded Hologram."
- **Multiple Technologies:**
 - ◆ Optical media for visual, digital and physical security and high capacity data storage
 - ◆ Embedded IC chip for access to e-government services and logical access to information systems
 - ◆ Contactless proximity chip for physical access control, time attendance, and employee services such as car parking or government restaurants
 - ◆ Follows the standards and format of Italy's Citizen Identity Card (Carta d'Identità Elettronica, or CIE)



- **High Data Capacity:** The high capacity optical media provides sufficient capacity for all required demographic and biometric information and can be added to as needed. Information stored on the IC chip may be backed up securely on the optical media.
- **Cost Effective:** True multi-application capability, future flexibility and growth, tamper-proof data storage, durability, and long life deliver significant return on investment.
- **Secure Issuance Process:** The demanding production, initialization, personalization and issuance of a multi-application, multi-technology card requires the highest levels of security and control, from manufacture to issuance.
- **Compatibility/Interoperability:** Complies with relevant international technology and application standards, including those defined by the European Community and the International Organization for Standardization (ISO).
- **Eye-visible security:** Optical security media enables confident authentication with or without access to electronic readers or computer databases.

The Italian Government has also selected secure ID credentials from HID Global use as citizen ID cards and employee ID cards for all Ministry of Justice employees.

Village In Eastern Turkey Implements End-to-End iSCSI Megapixel Solution To Safeguard Turkish-Iranian Border

Background

The visual clarity of megapixel cameras brings explicit benefits for video surveillance. For some applications, such as transportation, manufacturing, school or public utility, this advantage is extremely important for enhancing operation efficiency and overall service satisfaction. Using Surveon's megapixel cameras and clustered video storage, security integrators can provide reliability and stability to customers, and at the same time, minimize man power costs while increasing efficiency.

The Customer

Gürbulak is a village in the district of Doğubeyazit of province Ağrı in eastern Turkey and the only border door into Iran. As one of the major border checkpoints in the Middle East, Gürbulak required a major upgrade to megapixel surveillance to provide sufficient security in its tough environment.

The Challenges

Broad and uncovered space

The Gürbulak Border Checkpoint covers 160 decares of land, 75,000 square meters of wide road and park

space, and 16,000 square meters of closed space – all of the areas must be carefully monitored.

Illegal trade prevention

In order to ease customs and prevent illegal trade along the border, the government spent a lot of resource on man power for surveillance and was eager to adopt a more

efficient method using the advanced megapixel surveillance.

Integration of megapixel solutions

"Integration tasks do bring us a lot of troubles before completing the project," said Fatih Kilic of Biges Technologies, the security project manager of Gürbulak





Border Checkpoint. The extremely complicated integration and verification tasks, among all, not only consume SIs many invisible resources, but also contain other potential risks of integration. For example, when video recording is malfunctioning, which device is the cause? Camera? VMS? Or is it storage performance, not the device, that is degrading? Sometimes the integration of VMS and PC causes the system to be unstable too.

Solutions

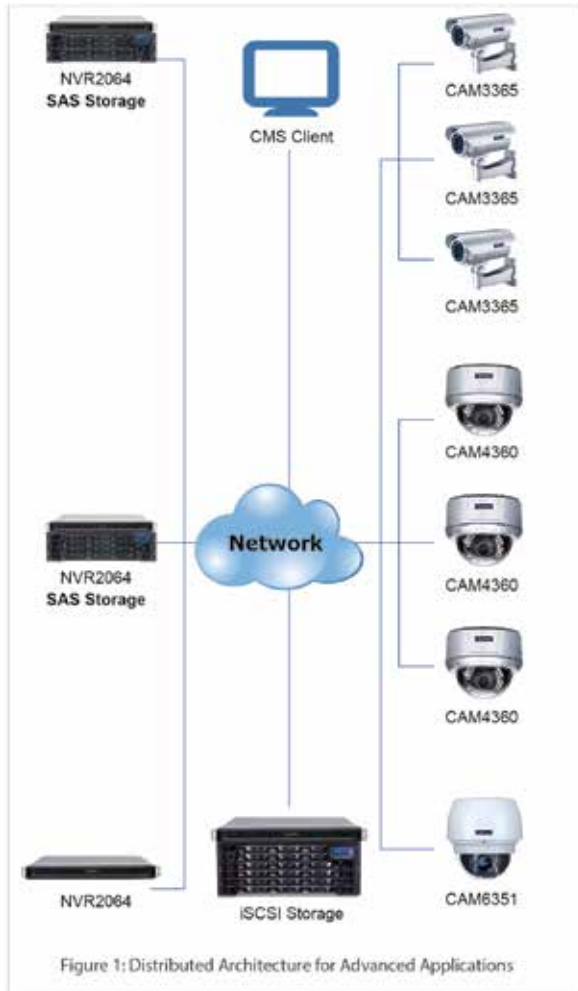
Surveon's megapixel solutions, which contain IP cameras, hardware RAID NVR, IP storage and enterprise centralized management software, were deployed at the Gürbulak

Border Checkpoint. Three megapixel IP cameras were installed in the key locations to efficiently monitor the areas with hundreds of people and vehicles coming in and going out: CAM3365 three megapixel IP66 bullet cameras for day and night usage, CAM4360 Full HD vandal proof outdoor domes, and CAM6351 Full HD autofocus PTZ speed dome for outdoor surveillance. All devices are built with industrial grade components, which lead to reliable solutions that reduce maintenance cost.

"One important benefit that Surveon brings to our partners is the end-to-end solutions and the fully in-house design and manufacturing that make our products superior and provide

outstanding performance. Surveon products are also verified by end-to-end based certifications." Andy Chen, assistant vice president of Surveon, emphasized. Network video recording is handled by Surveon's enterprise grade NVR2000 series, which offers up to 64-channel megapixel recording and 120 days of video content storage. Surveon's iSCSI-based RAID NVR provides scalable architecture, which brings lower maintenance effort, fewer required hard disks and lower cost.

Surveon enterprise Centralized Management Software is built with client-server architecture and adopts central management style, which is also easily scalable. Its active VI detection function has a



pre-configured base for a number of scenarios, such as intrusion detection at and around the checkpoint, examination of important gates and detection in the park areas. The smart investigation feature distinguishes what is important from what is not, turning raw surveillance videos into useful information. The recorded events are analysed and labelled with details such as time, date, direction, colour and size of the objects.

Surveon's clustered video storage solutions come with the SANwatch storage-monitoring suite, which helps customers easily manage and monitor the status of their storage systems. The data protection functions provided by SANwatch storage monitoring suite ensure the highest availability of recorded videos and events; no data loss is allowed.

Benefits

True megapixel quality

Ranged from two, three to five megapixels, Surveon's IP cameras are equipped with Sony Exmor Sensors that provide 10 times clearer images than conventional analogue cameras, offering sufficient reliability for long-term operations.

Less maintenance effort and management cost

"Surveon's cameras are designed and manufactured in house with industrial-grade components to ensure the lowest failure rate for 24/7 operation," said Chen. "We believe using the high quality components will benefit our partners to reduce maintenance and failure rate. These investments will then be returned to the control management of manufacturers' product quality and total cost of ownership."

"Surveon uses three-year warranty industry-grade components instead of conventional consumer-based components and deploys IP66, vandal proof and in-house high quality control production process. These have resulted in great improvement on product quality and indeed saved massive management cost for us," said Kilic.

End-to-end solutions

Surveon provides various product packages, ranging from different camera segments to resolutions and all kinds of NVR and storage systems. All of them are based on the same VMS framework, which allows partners to keep the investment on existing projects for expansions. **SST**





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Provider Of Armed And Unarmed Security For Airports And Seaports In Singapore Upgrades Security System



Background

AETOS Security Management provides integrated and tailor-made solutions that cater to the security needs of a diverse clientele in Singapore.

Since its incorporation in 2004, AETOS have established a reputation as the trusted provider of armed and unarmed security for the airport and seaports of Singapore, as well as for key installations and buildings.

Leveraging on experience and expertise, AETOS have integrated security training and consultancy, event and asset security management and a host of other professional security services to provide a comprehensive range of solutions for their clients.





The Challenge

The AETOS Command Centre has been situated at One Mount Pleasant Road in Singapore since May 2008. At this location, AETOS was using a physical copy of a Singapore map attached to the wall to organise the deployment and dispatching of security officers to their respective duties. Faced with the changing needs and requirements of their customers, one of the first big challenges was to replace the static map with a digital one.

The new solution uses the flexibility of the WEY VSS2XM Allocation System to incorporate Google Maps onto the operator screens and project the overview to a video projection wall. Due to the modularity of the architecture, WEY solutions are easily expandable. System changes and maintenance can be executed at any time and without service interruptions.

The Solution

After careful evaluation of multiple technology options, AETOS chose the WEY solution. All sources are available from every position. Ergonomic working environments have been realised for the operators. And the new solution provides extremely high system reliability in accordance with AETOS' emphasis on security.

Four AETOS operators, one supervisor and one Crisis

Management Room have been outfitted with six WEY Multifunctional Keyboards, providing intuitive control of all PCs and multimedia applications. Each operator is able to switch to and monitor colleagues' screens when necessary. The supervisor can easily oversee junior operator activities and keep an overview of the entire operation from the comfort of his own desk. This saves valuable time in the event of a breach of security. Furthermore, all sources are accessible on the video wall and in the Crisis Management Room. Security alerts are also projected to the projection wall, ensuring that all alarms receive the staff's full attention.

All the AETOS PCs have been remoted to a server rack in a system room. This has freed up considerable legroom underneath the operators' desks as well as reduced heat, noise and electromagnetic emissions in the control room working environment.

Jonathan Ngow, vice president of Technology Solutions at AETOS has this to say about the Command Centre project: "Thanks to the dedication and hard work of the highly qualified staff of WEY engineers, the project was completed as planned despite the challenging circumstances of coordinating with multiple parties. Using the WEY keyboard, all data sources are securely and efficiently displayed at the desk or on our video wall. Now that we are live, AETOS will be able to benefit from the 'Free Seating' solution deployed by WEY." **SST**

Airport In The Dominican Republic Installs Surveillance Cameras To Enhance Security

Background

Santo Domingo, the capital of the Dominican Republic, is the largest city in the Caribbean region. The city accommodates some of the largest and busiest international and domestic airports in the Caribbean, such as the Las Américas International Airport (AILA) and the La Isabela International Airport.

La Isabela International Airport is a fairly newer airport, which opened in February 2006 to replace the former Herrera International Airport. La Isabela is the major hub for Dominican airlines that operate to and from other Caribbean Islands.

The Challenge

In March 2014, Metrotec, a local system integration partner of VIVOTEK, was commissioned to upgrade the surveillance systems at the two airports. The primary reasons for upgrading the surveillance systems in both airports was to combat crime and drug trafficking, prevent loss of luggage, and identify unattended luggage by improving the monitoring and screening of passengers and cargo in the airport. To maximize security, Metrotec carefully chose VIVOTEK's Network Bullet Camera IP8362 and the Speed Dome Network Camera SD8362E for this project. AILA was fitted with 100 IP8362 and 42 SD8362E cameras and La Isabela International Airport was fitted with 25 IP8362 and 5 SD8362E.





The Solution: Integrated system, Enhanced Airport Management and Operation

The IP8362 is a top-of-the-line full HD bullet network camera designed for diverse indoor and outdoor applications. It features wide dynamic range (WDR) enhancement that allows surveillance in high-contrast lighting conditions, such as near entrances or around airport lobbies and aircraft parking, where both bright and dark areas lose detail. The camera also offers extra smooth video quality with up to 30 fps @ 1080p full HD. In addition, because international airports operate on a 24-hour schedule, the IP8362 comes with a removable IR-cut filter and built-in IR illuminators that





facilitated both day and night applications. Other advanced features include tamper detection, 802.3af compliant PoE, and a MicroSD/SDHC card slot for on-board storage.

The SD8362E, a professional speed dome network camera, offers two-Megapixel or 1080p resolution image quality. Featuring WDR Pro technology, the SD8362E can also cope with challenging lighting. With sophisticated pan/tilt mechanism, the camera provides fast, precise movement with continuous 360-degree pan and 90-degree tilt. The airport security staffs can easily control the lens position via a mouse or a joystick to track suspicious objects and set up to 128 pre-set positions for patrolling. The IP-66-rated housing protects the camera against rain and dust within a wide temperature range (-40 and 55 degrees Celsius), making this camera especially suitable for monitoring wide-open indoor/outdoor spaces like airports. In addition to most of the functions of IP8362, the SD8362E is further equipped with audio detection, which detects fluctuations in surrounding volume, consequently ensuring an additional layer of intrusion detection.



In this project, Metrotec adopted Genetec's video management system and integrated videos of both airports in a Central Command Center CESAC C4 where all the images and audio are received. A huge video wall is built to present alarm events to 15 security operators to have detailed viewing for immediate action while at the same time all data are stored in a huge data centre through non-stop 24/7 operations. The software seamlessly blends the network security surveillance systems installed in the individual airports within a single intuitive interface, increasing operational efficiency and simplifying video management. **SST**



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Indian States Of Gujarat, Delhi And Maharashtra Put In Place Measures To Fight Against Forgery And Tax Evasion

Background

The Indian States Of Gujarat, Delhi and Maharashtra have successfully countered forgery and abuse of vehicle registration documents with new, highly secure certificates of registration. At the core of this program are HID Global's leading security features and advanced card design.

because vehicles were not traceable to criminal or terrorist activities.

The Business Issue

Transportation officials in these three states needed a high-tech, high-security approach to combat extensive inefficiencies, corruption and administrative backlog.



The vehicle registration system was designed to provide the majority of revenues for state transport offices, but without systems for securely managing fee collection, all three states were unable to capture adequate fees. In addition, officials could not access evidence of a vehicle’s registration, insurance or soundness, nor could police track vehicles used in crimes.

Requirements

The essential requirements for new documents were counterfeit-resistance, durability, and the ability to securely store ten years’ worth of data and seamlessly interact with the government’s e-licensing system. This combination was critical to prevent fraudulent alteration and to withstand ten years of inconsiderate handling by vehicle owners.

A counterfeit- and tamper-resistant solution

REGN . NO :MH01AZ3426

REG. DT: 18/10/2011	O SNo : 01
CH. NO : ME4KC09CJBB144873	MFG CD : HONMCY
E NO : KC09E6149830	COLOUR : RED
	CLASS : MCYL

NAME : VISHAL V HONAVARKAR
 S/WID OF : V HONAVARKAR
 ADDRESS : FLAT NO 506 BLDG NO 4 B WING
 MUKTAI CHS LTD DEVRATNA NGR S M RD
 SION CHUNABHATTI MUMBA400022

HP/LEASE:		Registering Authority
MODEL : CB UNICORN (BSIII)	NO. OF CYL : 1	Mumbai Central RTO
BODY : SOLO	UNLADEN WT : 146	<i>Sally</i> Signature
WHEEL BASE : SOLO	SEATING C : 2	
MFG.DT. : 09/2011	STANDING C : 149	
FUEL : PETROL	CU.CAP : 149	
REG.UPTO : 17/10/2026	CARD SLNO : 010244556	
TAX UPTO : LTT		



Gujarat, Maharashtra and Delhi each selected HID Global’s ID credential based on the unmatched security record of the company’s LaserCard® optical security media, which has never been compromised. Since



September, 2001 Delhi and Maharashtra have instituted new cards known as “Registration Certificate (RC) Books” for all existing and new motor vehicles; in Gujarat, the new cards are voluntary.

The cards have provided Indian officials with proof that a vehicle’s registration and all related fees are current. Officials have evidence of insurance and soundness of vehicles at their fingertips. In addition to the economic and safety benefits, the card has been instrumental in deterring the illegal transfer of vehicles and aiding police in the identification of criminals based on the accessibility of information about vehicles used in crimes.





A major setback for mass counterfeiters

Many advantages to meet many needs

Counterfeit Resistance: There is no known instance of the digital security of HID Global's LaserCard® optical security media being compromised. The data recording process is physically irreversible, which effectively eliminates any realistic ability to counterfeit.

High Data Capacity: The 1.1 megabyte optical media securely holds all required vehicle and owner information, including facial images, demographic and biometric information, plus scanned documents supporting the vehicle history.

Durability: The laminated construction meets the most stringent durability requirements, as certified by an independent laboratory, supporting a ten-year lifetime for each vehicle registration card.

Low-Cost Solution: The combination of advanced technology, durability of construction, data capacity,

and application flexibility deliver maximum return on investment.

Optical Data Storage: Certified scanned images of original documents, which cannot be fraudulently altered, are available to authorities at tax renewal, dramatically reducing bureaucracy.

Updateable: New biometrics or personal data to be added by authorized personnel to help prevent obsolescence and fraud.

Meeting today's security imperatives

The "RC Book" vehicle registration document is a multi-technology, advanced card incorporating optical media with a data capacity of 1MB and a 4KB IC chip.

The optical media digitally stores the vehicle owner's portrait, demographics and fingerprint image plus scanned images of certification and taxation documents. This information cannot be erased or altered. **SST**