

# Security Solutions Today

July / August 2015



## GAMING & ENTERTAINMENT

**Cover Focus** An All-Rounded Security Solution For Gaming Spaces

**Security Feature** The Convergence Of IT Security And Physical Access Control & More!

**In Focus** An Interview With Mr Hary Permadi Kartono From HID Global & More!

**Show Review** Secutech Taiwan 2015



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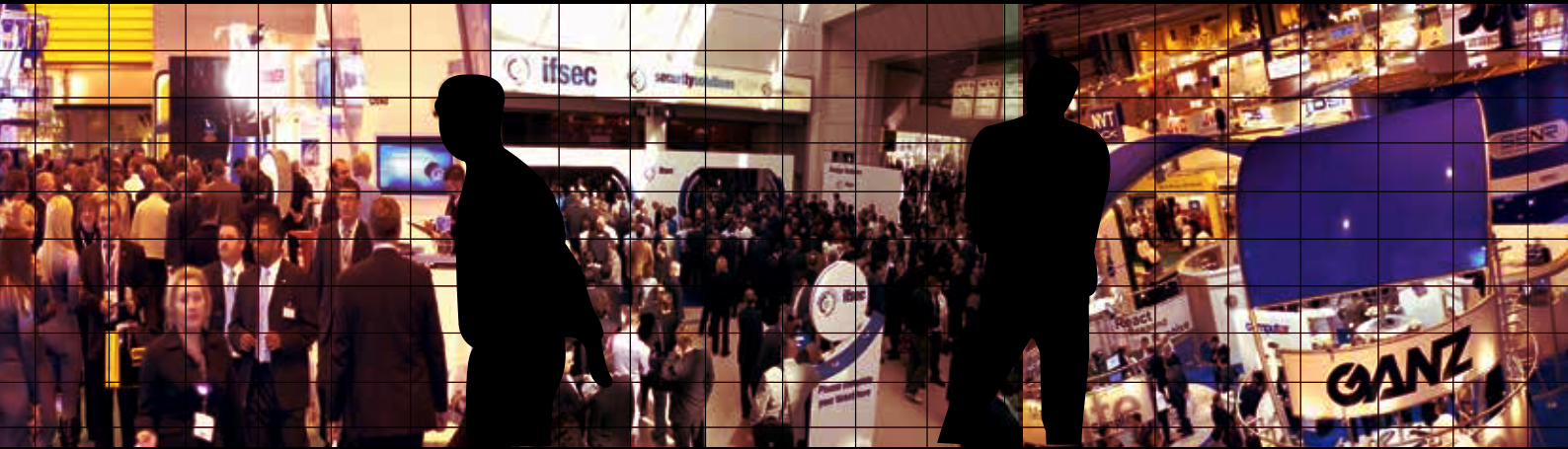
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Find out more at:

[CheckpointSystems.com](http://CheckpointSystems.com)

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# Calendar Of Events



## Secutech Vietnam 2015

Date: 18 – 20 August 2015  
Venue: Saigon Exhibition & Convention Center (SECC), Ho Chi Minh City, Vietnam  
Contact: Eva Tsai  
Organiser: Messe Frankfurt New Era Business Media Ltd  
Tel: (886) 2 2659 9080 ext. 668  
Email: stvn@newera.messefrankfurt.com  
Website: www.secutechvietnam.com

## IFSEC SEA 2015

Date: 2 – 4 September 2015  
Venue: Kuala Lumpur Convention Centre  
Contact: TJ Tan  
Organiser: UBM United Business Media Malaysia  
Tel: +6-03-2176 8788  
Email: TJ.Tan@ubm.com  
Website: www.ifsecsea.com

## Myanmar Security Expo 2015

Date: 2 – 4 September 2015  
Venue: Tatmadaw Hall, Yangon  
Contact: Michael Ng  
Organiser: MP International (MPI) group  
Tel: +65 6393 0251  
Email: michaelng@mpinetwork.com  
Website: www.securityexpomyanmar.com

## Safety & Security Asia 2015

Date: 29 September – 1 October 2015  
Venue: Marina Bay Sands, Singapore  
Contact: Christine Sim  
Organiser: Conference & Exhibition Management Services Pte Ltd  
Tel: + 65 6278 8666  
Email: SSA@cems.com.sg  
Website: www.safetysecurityasia.com.sg



## Security Solutions Today

Security Solutions Today (SST) is a leading publication on the latest security information, trends and technology, and products that include Access Control, CCTV/ IP Surveillance, Intrusion Detection and Integrated Security Systems.



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SST is packed with the latest developments in security technologies and trends, events, previews and reviews of major global trade shows, product launches and security installations worldwide.

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**Light Weight and Simple Operation**

Fitting in the palm of your hand, the PKT-23 is easy to take anywhere your staff needs to go. At only 110 g, it can fit comfortably in an apron pocket or attached with the included belt clip. The front panel button layout makes the PKT-23 easy to operate.



**500 mW Transmit Power with Up to 15 Hours of Operation**

The PKT-23 offers 500 mWatts of power, providing a coverage area up to 8 km for direct radio-to-radio communication on the same frequency. The built-in 1,430 mAh lithium-ion battery provides up to 15 hours of use.

**Wide talk range**

The PKT-23 achieves a talk range of up to 8 km with a receiver circuit optimised for the high-performance stationary antenna.

**8 Channels with Voice Guide**

The PKT-23 provides up to 8 channels, allowing you to assign channels to specific team members. The Voice Guide alerts you when you change channels.



**Multi-coloured LED**

Blinking LED lights in 3 colours indicate the PKT-23's transmission status and low battery status.

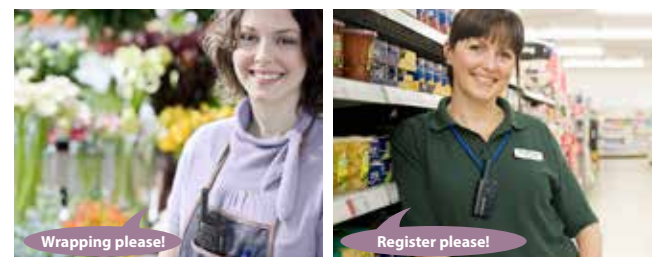


**Built-in VOX**

Built-in VOX allows hand free operation which automatically starts transmission in response to your voice when using an external microphone.

**Equipped with Micro USB terminal**

The standard micro USB port means a smart phone charger can also be used to charge the PKT-23.



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# Editor's Note

Dear fellow readers of the Security Solutions Today. As this is my first issue as the Editor for this magazine, I am very thrilled to have come on board and join all of you on this journey.

Stitching up the pieces of this particular issue was both exciting and meaningful. It has, least to say, been an exhilarating ride and I consider it a privilege to be given the opportunity.

For this issue, I bring you to the world of gaming and entertainment. We will look at case studies ranging from various gaming spaces around the world and how it has come to require such stringent security needs in this millennium. As the pages flip on, you will discover the very fundamentals of the gaming spaces and its physical security, presented to you by Genetec.

The 'In Focus' section is wrapped up with interviews conducted with HID Global - Mr Hary Permadi Kartono, Checkpoint Systems - Mr Mark Gentle and Bosch - Mr Claude Hochreutiner on different perspectives, latest products and technologies of security. We will also be taking a closer look at Axis' new Zipstream Technology and uncover the essential benefits of its innovative functions.

I have prepared a broad coverage that encompasses articles with hopes to further enhance your awareness on the trends of today's security world.

In appreciation of the guidance, I would like to thank my mentor Editor, Sharon Kaur for patiently showing me the ropes into making this issue a solid one. I hope you will join in welcoming me onto the platform of Security Solutions Today. Cheers to many more issues to come!

Lastly, enjoy the read!

Ain Ebrahim  
Editor



**SINGAPORE SPORTS HUB\***  
Delta DSC2000 Barricades



**UK EMBASSY, BUDAPEST**  
Delta DSC1100 Barricade



**BERTH LIMA-SAN DIEGO**  
Delta TT280 Linear Crash Gate



**NAVY YOKASUKA, JAPAN**  
TT207S Barriers



**PORT, JAPAN**  
DSC501 Barricade



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Delta TT210 Bollards



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BUILDING, DC**  
Delta IP500 Portable Barrier



**LOS ANGELES INTL. AIRPORT**  
Delta SC3000 Sliding Gate



**U.S. EMBASSY, YEMEN**  
Delta DSC501 Barricade



**UNIVERSAL STUDIOS**  
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\*Photo courtesy of VSL Infrastructure Protection, Installer

## Top Safety Accreditation For Dallmeier UK

**D**allmeier UK has been awarded accreditation from Safecontractor, which is a leading third party accreditation scheme that recognises very high standards in health and safety management amongst UK contractors. This accreditation recognises Dallmeier's commitment towards achieving excellence in health and safety.

The company's application for Safecontractor accreditation was driven by the need for a uniform standard across the business. "Dallmeier is always looking to improve and embrace innovation, whilst seeking opportunities to work more effectively. Health and Safety is critical to this development. This accreditation is a testament towards our continued professionalism in promoting our business to the end user market place", says James Walker, Managing Director at Dallmeier Electronic UK Ltd.

Safecontractor accreditation will enhance the company's ability to attract new contracts and its insurers will view Dallmeier's commitment to safety positively when the company liability policy is up for renewal.

Under the Safecontractor scheme, businesses undergo a vetting process, which examines health and safety procedures and their track record for safe practice. Those companies meeting the high standard are included on a database, which is accessible to registered users only via a website.

For more information, please visit: [www.dallmeier.com](http://www.dallmeier.com) **SST**



## Arecont Vision Continues To Up The HD Imaging Ante

**W**ith an army of competitors now gunning for Arecont Vision, the established leader in megapixel video surveillance imaging continues to show why it remains the company to beat at ISC West. Now in its fifth generation of multisensory panoramic camera systems, Arecont showcased a quartet of new products at the show. They include the 5MP SurroundVideo G5 with Spatio Temporal Low Light Architecture (STELLAR) technology and remote focus P-iris lenses, in standard and smaller form factor versions of 12MP and 20MP. The MegaBall G2 cameras are also now equipped with STELLAR and Smart IR technologies for enhanced low light performance, as well as CorridorView for better coverage in hallways and corridors and enhanced MicroDome G2 cameras with the added convenience of remote focus and three-axis adjustment.

Arecont Executive Vice President Scott Schafer was on hand during Security Sales & Integration's visit to walk through the company's technology timeline, which was vividly portrayed in the booth to illustrate the surveillance innovator's big strides made from first to current fifth generation imaging. According to Schafer, some of the top breakthroughs have been in remote focus and zoom, surround video, double frame rates, and 8.3MPs at 30fps.

Schafer also demonstrated SurroundVideo Omni, which can cover fields of view ranging from 270 degrees to 320 degrees suitable for applications such as parking lots and other outdoor locations. One of its very unique features is the ability to adjust the imaging sensors to 77 different positions. Schafer said some of the cameras are being integrated with Code Blue emergency stations for campus deployments. Like many of the video surveillance specialists at ISC, Arecont claimed its 4K imaging was superior to others on the show floor. However, Schafer made a compelling case with the firm's MegaVideo 4K that overcomes low light shortcomings of the technology by using a full one-inch sensor whereas most others use half-inch sensors.

For more information, please visit: [www.arecontvision.com](http://www.arecontvision.com) **SST**

# Looking to the future of Fire System Services



**BOSCH**  
Invented for life

## Break Free with Remote services

We have moved into IP technology to increase connectivity, bringing on board Remote Services.

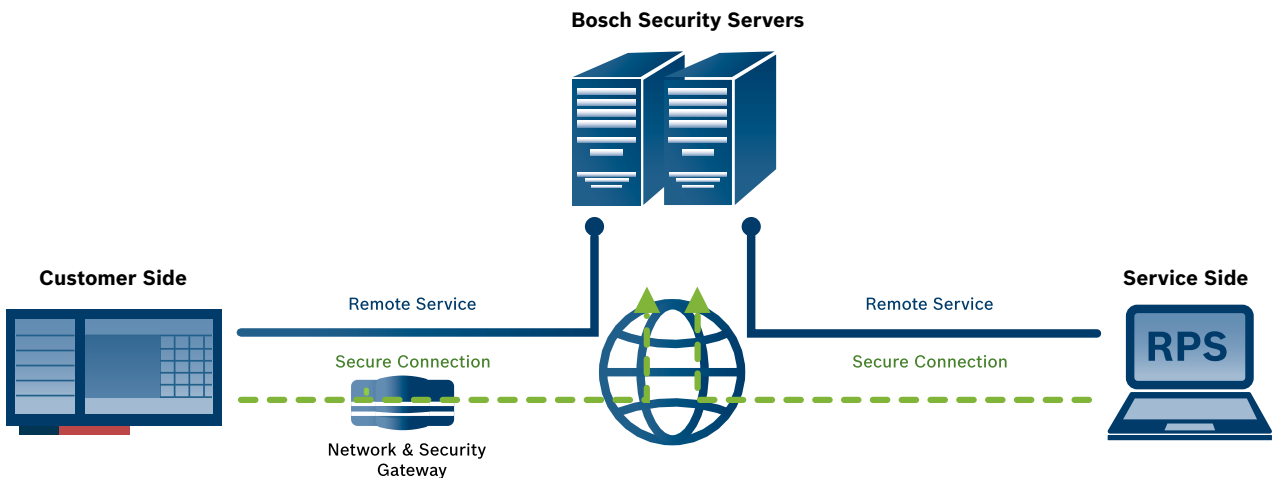
Remote Connect is the first out of a range of upcoming IP-based services that prove our sustainable and future-driven approach in providing our customers with quality products and solutions.

The IP-based solution for remote diagnosis and remote maintenance will increase the reliability of Bosch fire alarm systems and make operation more efficient. Remote Services will enable installers to do maintenance and control systems remotely 24/7 while recognizing possible malfunctions at an early stage.



## Secured internet connection as basis

Remote Connect is a secure internet connection via the Bosch Security Server between system operator or maintenance contractor and customer. Remote Connect can be quickly installed and does not require special IT knowledge. Both new installations and already existing Bosch fire alarm system can be connected. The installation effort is low and the configuration can be done remotely. This is also applicable for programming and updates.



**The lack of information transparency in fire systems, solved in minutes with Remote Connect**



Remote Connect provides 24/7 remote access for programming and maintenance.



With constant monitoring, better planning can be done for maintenance and upgrades; optimizing resource allocation.



Repairs can be done more quickly without an on-site visit. This reduces operational costs for both installers and customers.

Get up and running by simply plugging your internet connection and fire panel to the Network and Security Gateway device. For more information, visit [www.boschsecurity.com/remoteservice-fire](http://www.boschsecurity.com/remoteservice-fire) or email us at [enquiry.apr@sg.bosch.com](mailto:enquiry.apr@sg.bosch.com)

## Bosch Delivers Networked Security Solution For Award Winning Shopping Centre In Turkey

**B**osch Security Systems was chosen as the central supplier for the security systems at Marmara Park Shopping Center in Istanbul, one of the largest of its kind in Turkey. The shopping center is completely designed in a galaxy-theme. Space-related lighting, planet models and a theme park for visitors to form the individual identity of the shopping center. The networked and integrated security solution from Bosch comprises of fire and voice evacuation systems, video surveillance, access control, and intrusion detection. All of these systems are centrally managed and operated via Bosch's Building Integration System.



With a total floor space of 100,000 square meters, 250 individual shops and restaurants, a hypermarket, a cinema complex and parking for 4,000 cars, Marmara Park serves approximately 40,000 customers per day. More than 2,400 jobs were created within the shopping center developed by ECE Türkiye. In 2013 it was awarded the MIPIM award in the shopping centre category, one of the world's most prestigious awards in real estate development.

To enable the highest security level for customers, employees and suppliers of Marmara Park, local Bosch partner Entegre designed a highly modular and scalable security system that meets all the standards as set in norm EN54. The Bosch fire alarm system consists of four networked Modular Fire Panel 5000 Series with 59 loops supporting more than 5,000 fire detectors. It is tightly integrated with the Bosch PRAESIDEO voice evacuation system, which can also be used for announcements and background music in normal operations. This system with 64 amplifiers supports 140 independent zones, allowing targeted messaging in case of an evacuation.

Video surveillance of the entire premises has been realised using almost 300 cameras and 18 digital video recorders. In addition, Entegre installed a comprehensive access control system for non-public areas within the centre as well as the addressable intrusion detection system Modular Alarm Platform MAP 5000 from Bosch with more than 1,000 detectors. This allows the operator to exactly locate every alarm in real time, enabling fast response to any incident. The same holds true for the panic buttons, which have been installed in all of the shops.

Being a tightly integrated solution, the entire security system can be configured and operated very efficiently from one central location or distributed consoles. The open architecture makes it highly scalable and adaptable to future additions or changing requirements.

For more information, please visit: [www.bosch.com](http://www.bosch.com) **BST**

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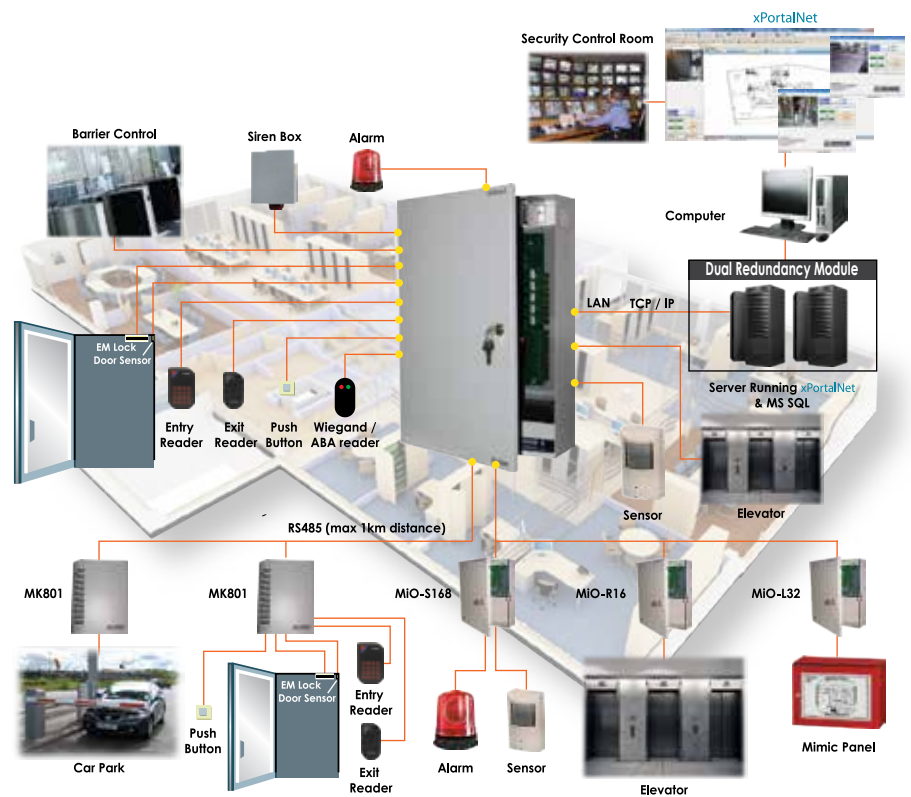
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- ▶ AES128 Encrypted IP
- ▶ Support 1 Door/2 Readers

### Integrated Security System (With Redundancy)



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Commercial / Complex



Factory



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- ▶ CCTV Integration with Selected International Brand
- ▶ OPC Integration Module
- ▶ DesFire Reader

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## QNX Technology Powers Automated Fare Collection System From MSI Global

**Q**NX Software Systems Limited, a subsidiary of BlackBerry limited announced that the QNX Neutrino OS is powering a fare of collection system, which includes automatic gates, ticketing machines, and on-board bus equipment, throughout the Association of Southeast Asian Nations (ASEAN), including Singapore, the Philippines and Thailand. The system was created by MSI Global Pte Ltd, an international system integrator specialising in land-transport solutions and a subsidiary of the Land Transport Authority (LTA) of Singapore.

The on-board bus equipment is an enhanced version of a QNX-based fare collection system that LTA has already deployed in more than 4,800 public buses in Singapore. MSI implemented the improved on-board bus equipment to replace existing equipment due for replacement, to further enhance performance, and to support various new fare products. Security was a key criterion for MSI, and the highly resilient architecture of the QNX Neutrino OS, which minimises attack vectors, was a natural choice for the new design. QNX Neutrino helped reduce system costs



through its fast, highly reliable performance, which allows multitasking of multiple subsystems while minimising failures in the demanding operating environment of buses. QNX Neutrino also helped MSI create an intuitive user interface through its support for advanced graphics technologies, including HTML5.

For more information, please visit: [www.qnx.com](http://www.qnx.com) **SST**

## Texecom's Range Of Security Control Panels Now Available With Enhanced Connectivity Options

**T**he launch of the new Premier Elite ComWiFi module allows any Premier Elite control panel to be connected to a home network. The Premier Elite ComWiFi integrates with any Premier Elite control panel for simple and secure network connectivity.

WiFi connectivity provides a host of benefits for Premier Elite systems, including compatibility with Texecom's suite of Premier Elite Mobile Apps, and upload or download diagnostic control via Wintex software.



The launch of the Premier Elite ComWiFi coincides with a major upgrade of Texecom's Premier Elite mobile apps. These apps have been updated to include system alerts via Push Notification and IP-enabled camera control. Available on both iOS and Android, these apps offer end-users, master users and system engineers control functionality.

For more information, please visit: [www.texe.com](http://www.texe.com) **SST**

## Taking 360° Total Situational Awareness To The Next Level

EVOmini



ONVIF | S

Introducing the world's smallest 360.  
Another Hole in One from Oncam Grandeye!

- Constant 360° surveillance, no blind spot
- Mini enclosure ideal for discreet mounting
- No moving parts; no maintenance; silent operation
- 30fps @ 1MP and ¼ MP, 15fps @ 2MP, 10fps @ 4MP
- 0.2 lux minimum illumination; providing clarity in low light
- PoE powered; with integrated RJ45 flying lead
- 3-years warranty

Oncam puts the 360-degree experience at your fingertips, literally.



ONVU360

\*Available for both iOS & Android platforms



Evolution 360° Indoor Mini Camera

## Extensive NVR/VMS platform integration; Full live and retrospective dewarping

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- Camera features are accessible via VMS platforms
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- 8x zoom capability through client-side dewarping
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- Optimises bandwidth and storage utilisation
- Configurable password protection
- Intuitive web-based interface for viewing and configuration
- Supports major VMS / NVR / HDVR systems



Evolution 360°  
Outdoor Camera



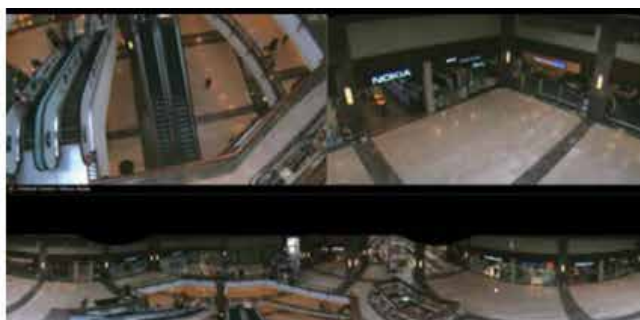
Ex ONVIF | S



Evolution 360°  
Indoor Concealed Camera



Evolution 360°  
Indoor Camera



\*Actual Footage

## Jump Ahead With SALTO's New Product Line Up At IFSEC 2015

**S**alto is proud to present at IFSEC 2015, a comprehensive new range of access control products and technologies that offer unrivalled usability, capability and flexibility. Consisting of both hardware and software, the new range builds on SALTO's reputation as world leaders in design and manufacture of wireless access control systems used in over 90 countries by more than 14 million users daily.

New JustIN technology brings flexibility to access control, making it easy and secure to use smartphone as part of your access control solution. Using SALTO's internally developed JustIN apps makes their two mobile solutions uncomplicated and straightforward. SALTO's JustIN Mobile Key app allows users to use their BLE-enabled smartphone to securely receive their keys online, anytime and anywhere, and access doors directly with their phones. An alternative option is the JustIN mobile SALTO Virtual Network (mSVN) that permits extending or changing access rights instantly and remotely Over The Air (OTA) using the mSVN app for NFC-enabled phones.



Their new software product called ProAccess SPACE is designed to build on the established SALTO ProAccess and HAMS software family, and is web-based software with an easy to install SQL database engine embedded inside. With its web-based interface, the system can be managed or operated from different workstations simultaneously without risk of database corruption. No need to install the software in all operator PCs but rather simply install SALTO Pro-Access SPACE Service in one server or computer, then give access to other authorised computers inside the network.

With these latest products and technologies, SALTO once again, delivers unrivalled versatility by bringing real-life usability and flexibility to access control, which remains the hallmark of SALTO solutions.

For more information, please visit: [www.saltosystems.com](http://www.saltosystems.com) **SST**

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## OCE's Discovery Celebrates 10 Years Of Innovation With Largest Ever Show

**E**very year, Ontario Centres of Excellence's Discovery trade show and conference features a showcase of the best offerings from Ontario's and Canada's best and brightest innovators and entrepreneurs. On its tenth edition, this year, it certainly is maintaining that tradition with its busiest show ever, spanning from 27th to 28th April 2015 at the Metro Toronto Convention Centre.

Among the hundreds of local Ontario innovation highlights at this year's show was the unveiling of the only Canadian entry into the \$10 million X Prize Tricorder competition, the debut of a high performance platform for the world's largest functioning brain model, a robot tea-butler, 'smart' jewellery and other wearable technology, advanced 3D printing and scanning, a pen that can draw a circuit board, a pizza oven that turns excess heat into renewable power and a cloud-based pet sitter.

Named as Canada's Best Trade Show 2010 and 2011, Discovery attracts more than 2,600 attendees and 425 exhibitors. This year, Discovery welcomes back tried and true features like engaging panels, world renowned speakers, career advice, mentoring, competitions and a show floor buzzing with some of the newest Ontario's locally made gadgets and gizmos.

For more information, please visit: [www.ocediscovery.com](http://www.ocediscovery.com) **SST**

## HID Global And Botosoft Launch Mobile ID System In West Africa

**H**ID Global in collaboration with Botosoft, the leading provider of technologies in Africa has successfully launched a mobile student ID system to help the West African Examinations Council (WAEC) combat student identity fraud in Nigeria. Every year, more 2.2 million students will register online and receive machine-readable Genuine HID smart cards. Mobile readers validate new student ID cards instantly.

To facilitate improvements in examination situations, WAEC teamed with Lagos-based Botosoft and HID Global to assist with the development and deployment of a secure card issuance and mobile student ID system, ultimately allowing WAEC to meet and exceed its security needs within budget. The use of handheld mobile readers eliminates identity fraud, allows examiners to verify student attendance, and enables them to manage challenges around the examination rules and violations in real-time.

HID Global leveraged on its government ID expertise to deliver a customised solution to accept the raw data from the WAEC online enrollment process, validate the information and prepare it for use in personalising the cards in Botosoft's facility. The turnkey software and hardware solution included 48 HID Global FARGO DTC4500 and DTC4500e ID card printers/encoders with a combined capacity of more than 65,000 cards per day.

Additionally, HID Global assisted with the card design and development of the mobile reader application software used in the mobile readers. Once issued, Botosoft's Candidates Identity Verification, Attendance, Malpractice and Post-Examinations Management System (CIVAMPEMS) ensures effective administration of the "Exam Day" process.

For more information, please visit: [www.hidglobal.com](http://www.hidglobal.com) **SST**

# We've got the touch



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## BlackBerry Launches The BlackBerry Leap In Singapore

**B**lackBerry Leap is now available in Singapore for young professionals who want to get things done, and companies looking for enterprise fleet renewals, will be able to purchase through select carriers and partners. Cameron Vernest, Managing Director BlackBerry Singapore said, "With an all-touch screen, the BlackBerry Leap rounds out our portfolio of BlackBerry 10 devices, offering an affordable choice to mobile professionals who require a smartphone that safeguards sensitive communication and keeps them productive." BlackBerry Leap features the latest BlackBerry operating system, a brilliant edge-to-edge five-inch HD display and more than a full day's battery power.

For more information, please visit: [www.BlackBerry.com/Leap](http://www.BlackBerry.com/Leap) **SST**

## Dahua's Panorama Camera And NVR Made It To Secutech Excellence Awards 2015's Spotlight



**D**ahua Technology emerged as the winner in two significant categories for the Secutech Excellence Award 2015. A world-leading manufacturer and supplier of video surveillance headquartered in Hangzhou China, Dahua proudly announced that its 12-Megapixel panorama camera, DH-IPC-EBW81200, the reigning winner of IP Cameras and its 128-channel 4K NVR, DH-NVR616DR-128-4K, the frontrunner of NVRs.

It was a conclusive win based on product trials of a real working environment and tested contestant cameras under a series of stringent criteria. Voting was open to onsite visitors and security professionals to determine which models represent the best of the best.

The DH-IPC-EBW81200 features 1/2.3-inch 12 Megapixel progressive scan CMOS, supporting max 15fps @ 12.0 Megapixel and 25fps @ 6.0 Megapixel encoding. There are multiple dewarping modes for different applications and installation modes, including original, panoramic, double panoramic, 1+3, e-PTZ and four pictures. Meanwhile, the camera supports Region of Interest (RoI), day/night (ICR) and DWDR to render user-friendly image mode at high quality. Additionally, its IR LEDs distance

reaches up to 15 metres, further ensuring outstanding night visual effect.

The NVR fan-favourite, DH-NVR616DR-128-4K, on the other hand is able to support 128 channel inputs with maximum of 384Mbps incoming bandwidth and up to 12.0Mp resolution preview and playback. The device is also integrated with fisheye function and has double stability assurance with RAID 0/1/5/6/10/50/60 and N + M hot standby. The DH-NVR616DR-128-4K accommodates 16 hot-swap HDDs, up to 96TB, equipped with front LCD display making it convenient for installation and maintenance and it supports iSCSI and Mini SAS to expand storage space.

"This is the fourth consecutive year that Dahua has earned trophies," said James Wang, Product Director at Dahua Technology. "But this year, for the first time, Dahua's NVR shows its great compatibility and outstanding performance among other brands, presenting our excellence from front-end to back-end holistically."

For more information, please visit: [www.dahuasecurity.com](http://www.dahuasecurity.com) **SST**



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## NEC Completes Delivery Of Core Technical Elements of INTERPOL Digital Crime Centre In Singapore

**N**EC Corporation has just completed its delivery of core technical elements of the INTERPOL Digital Crime Centre, which has been established within the INTERPL Global Complex for Innovation (IGCI) in Singapore. Full-scale operation of the INTERPOL Digital Crime Centre is set to begin in April 2015.

The INTERPOL Digital Crime Centre is the driving force of the IGCI. Its activities cover a wide range of areas essential to the assistance of national authorities like cybercrime investigation support, research and development in the area of digital crime, and digital security. NEC has successfully delivered a digital forensic platform and various other technical resources to help INTEPROL establish the new centre.

NEC showcased its broad array of advanced cyber security solutions, which have been implemented in the INTERPOL Digital Crime Centre, at INTERPOL World 2015. This event was held at the Sands Expo & Convention Centre in Singapore from April 14 – 16, 2015. NEC also demonstrated its latest public safety solutions, including biometrics identification technologies that have already been adopted by more than 500 customers in 40 countries and an intelligent video surveillance system.

For more information, please visit: <http://www.nec.com/en/event/iw2015/> **SST**

## VIVOTEK Upgrades Its Central Management Software VAST To Version 1.10

**F**ulfilling its commitment to enhance the performance of VAST, VIVOTEK has released VAST Version 1.10. In this version, VIVOTEK introduces new advanced features to VAST users, specifically, Logical Tree and Standard VCA Event Integration.

VAST is VIVOTEK's self-developed professional video/central management software for managing IP surveillance products. Designed with intuitive functions and features, VAST provides unlimited supports to cameras, servers and clients in a hierarchical system structure, efficiently and effectively monitoring, recording, playback, and event trigger management. The new Logical Tree and Standard VCA Event Integration features in VAST Version 1.10 facilitate installers and system integrators to build robust surveillance systems with ease.

**Logical Tree:** Previously, camera lists were only presented as non-hierarchical devices names. In Version 1.10, users can categorize camera lists based on personal requirements and preferences, enabling them to create hierarchical lists that increase the ease of accessing cameras at all sites.

**VIVOTEK On-camera VCA Event Integration:** VIVOTEK has launched the self-developed video content analysis (VCA) application package, which includes three key functions: Field Detection, Line Crossing Detection, and Loitering Detection. In Version 1.10, the VCA package is fully integrated into the VAST platform. In addition to receiving standard VCA events, VAST can now directly show event rules in live view mode.

Users who already own VAST can easily upgrade to Version 1.10 by downloading the update patch from VIVOTEK's official website.

For more information, please visit: [www.vivotek.com](http://www.vivotek.com) **SST**

## Huawei Introduces Its Business-Driven ICT Infrastructure Guiding Principal At Huawei Network Congress 2015

**W**ith a focus on customer-centric innovation, Huawei's BDII guiding will lead the way to next industrial revolution by facilitating in-depth integration of ICT infrastructure development and software applications, development of innovative infrastructure and joint innovation efforts with partners.

Rapid development in technology has created a need for next-generation ICT infrastructure, which heavily relies on the application of ICT technologies such as the Internet and smart devices. This has resulted in significant changes and innovations across various industries.



"At Huawei Enterprise, BDII is a guiding principle for us to enable the new industrial revolution. BDII consists of three core components - to think with a business-driven mindset, facilitate joint innovation, and focus on ICT infrastructure," said Yan Lida, President of Huawei Enterprise Business Group, Huawei. "As part of building BDII, Huawei will continue to focus on developing ICT infrastructure with an open structure through joint innovation. This will provide enterprises with more innovative, differentiated and cutting-edge products and solutions to help drive business transformations, seizing opportunities presented by the new industrial evolution and adding value to support business success."

Through providing industry-leading ICT technologies and solutions, Huawei has been addressing emerging technology trends to help enterprises transform its ICT infrastructure for improved competitiveness. The company believes that this is the way forward and the route to future success for all businesses across industries. With a focus on the ICT infrastructure development, Huawei's BDII guiding principle encourages open collaborations among all related parties to support the ICT transformation of traditional industries, leading the way to the new industrial revolution.

For more information, please visit: [www.huawei.com](http://www.huawei.com) **SST**

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## New Artesyn 600W Quarter Brick DC-DC Converter

**A**rtesyn Embedded Technologies launched the LCC600 series, a new edition of conduction-cooled AC-DC power supplies that can deliver their full 600 Watt power output across a wide operating temperature ranging from -40 to +85 degree Celsius. Unlike many power supplies in the market, which typically require output above approximately 55 degree Celsius, an Artesyn LCC6000 supply fed from a nominal 110 Vac input is capable of maintaining its full 600 Watt load capacity up to its maximum baseplate temperature of +85 degree Celsius. This is a cost-effective method for users who would otherwise need to budget for larger or additional power supplies.

For more information, please visit: [www.artesyn.com](http://www.artesyn.com) **SST**

## Secutech India 2015 Successfully Concludes With The Government Of Maharashtra's Support

The fourth edition of the Secutech India closed successfully from 12th to 14th of March 2015. Held at the Bombay Exhibition Centre in Mumbai, it brought together 123 exhibitors from ten countries and regions. The fair spanned over 10, 000 sqm of exhibition space and attracted 15, 354 industry professionals and buyers from 12 countries throughout the three-day event. The event was jointly organised by Messe Frankfurt New Era Business Media Ltd and Asian business Exhibition and conference whilst being supported by the Government of Maharashtra and various other leading industry organisations.

Officiating the opening ceremony was Mr Shri Chennamaneni Vidyasagar Rao, the Honourable Governor of Maharashtra. In his keynote address, Mr Shri shared, "Secutech India is maturing into a world class platform, and I am impressed by the quality of exhibitors and products, as well as the speaker line-up, which will soon present on critical security issues. Police force, safety and security professionals must visit this show to see the development in safety products, features and preventive measures, which they can adopt. I am hopeful that the seminar discussions and Secutech India itself will benefit the city."

Reflecting on the 105 shows results, Mr John Shi, General Manager for Messe Frankfurt New Era Business Media Ltd noted, "Secutech India 2015 has recorded stable growth in terms of the exhibition size and number of participants. I am proud that the show has become an annual gathering for the industry players to join together and seize business opportunities available in the emerging India market. In light of the Indian Government 's roadmap to achieve "100 Smart Cities", demand for advanced security and safety technologies is expected to surge and support the market's growth beyond 2015. The show will not only continue to facilitate trade but also promote idea exchanges to cope with the challenges in the future."

For more information, please visit: [www.secutechindia.co.in](http://www.secutechindia.co.in) **SST**

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## Gemalto Boost Egovernment By Adoption By Securely Combining eID Cards And NFC Phones

Gemalto, announces, Coesys mGOV, an innovative new mobile strong digital authentication solution that enables citizens to access online government services using a combination of their contactless national eID card and NFC phone.

Coesys mGov enables citizens to use their phones as an authentication and signature tool with an environment they can trust, opening the door to a rich array of eGov services. These range from social and health provision, such as family, employment or retirement, as well as driver's license related services and health insurance benefits, to local public services and citizenship including on-line participation and e-voting with both security and privacy.

Coesys mGov helps governments and public authorities

to enhance their trusted digital schemes, and deploy a national Mobile ID scheme complementary to identity programs. Authorities can meet the needs of modern, digitally connected societies and realise dramatic increases in the uptake of eGov services. It is also flexible enough to fit perfectly with a government's existing digital identity and security strategy. For example, the level of authentication can be adapted according to the nature of online services being accessed. To further simplify the users' experience, when used in conjunction with Gemalto's LinqUs Mobile ID, Coesys mGov supports the creation of derived secure credentials in the SIM card itself, or inside any other Secure Element available in the mobile phone, or in the cloud.

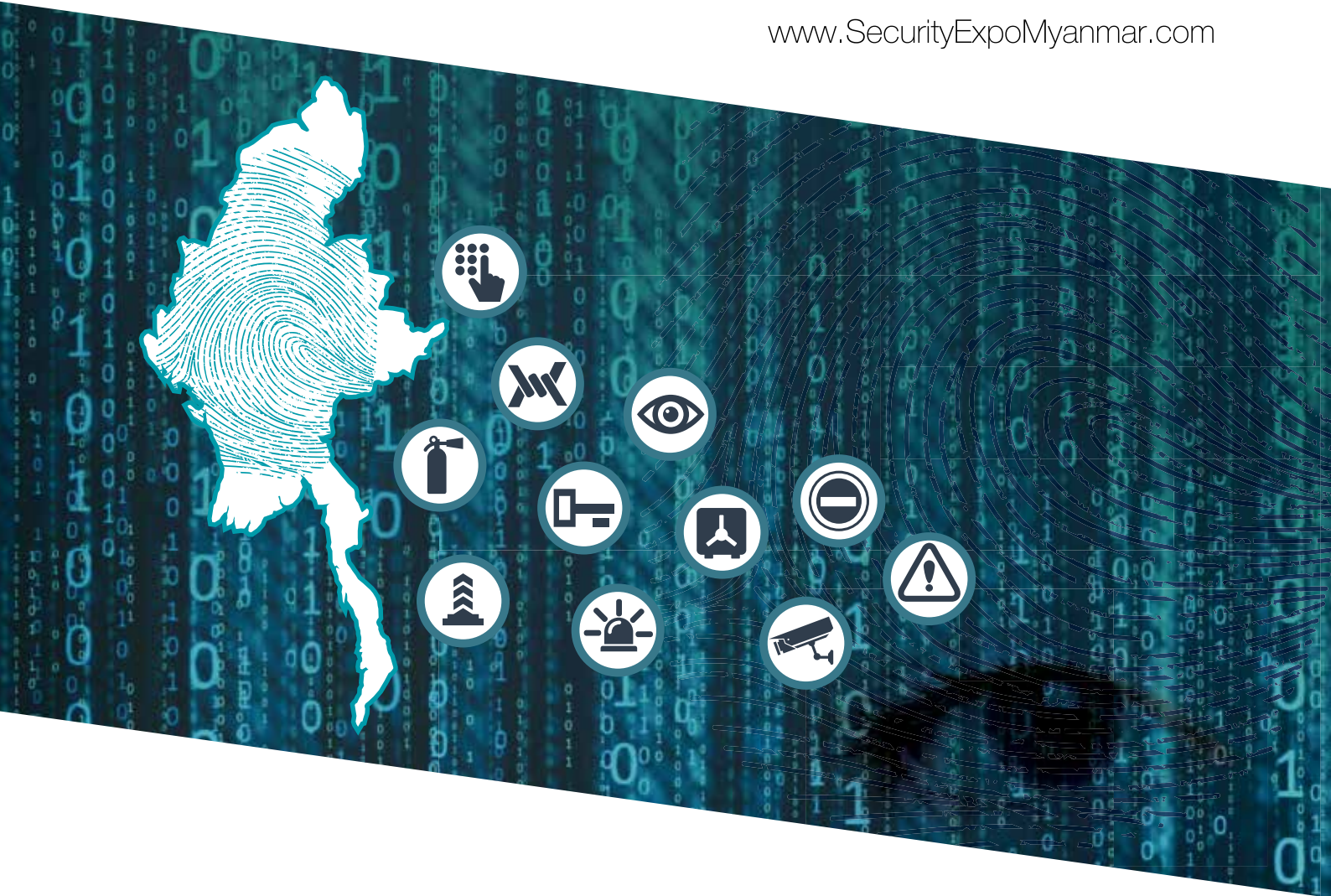
For more information, please visit: [www.gemalto.com](http://www.gemalto.com) **SST**



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# **AN ALL-ROUNDED SECURITY SOLUTION FOR GAMING SPACES**

By Genetec



Today's gaming establishments increasingly rely on technologically advanced security solutions to boost their overall performance. Casino bottom lines improve when table and slots cheats, "distant and grab" teams and other potential security breaches are prevented. The ability to effectively monitor all money exchanges and any dubious behaviour also safeguards casino revenues and customers' safety and security to any potential or hazardous threats. At Genetec, the key value we uphold is, understanding customers' needs and then building our strong pioneering solutions around them. With a sophisticated virtual matrix, bandwidth optimisation and built-in fault-tolerance, our IP security solutions enable you to effectively detect, investigate and stop fraud and crime.

### Understanding the key security and safety requirements

Securing your gaming facility means protecting your guests and property. It also entails preventing false liability claims and closely tracking the flow of people and money fleeing through your establishment. There are several areas that needs to constantly be scrutinised and supervised:

#### Gaming Floor

- Monitor players and employees at tables and slots
- Prevent false liability claims
- Identify suspicious people and behavior
- Protect guests and personnel

#### Outdoor Perimeter

- Proactively detect suspicious vehicles and people
- Protect buildings and assets
- Conduct surveillance of armoured car pick-ups
- Monitor vehicles and parking lots

#### Retail Stores and Cashier Posts

- Ensure integrated surveillance of point-of-sale and cash-handling areas
- Manage access control to restricted areas
- Prevent employee and general theft
- Track time and attendance through access control

### Genetec's Security Centre

Genetec always aims to be one step ahead. Our Security Centre is a leading unified security platform. It seamlessly merges our IP license plate recognition (LPR), video surveillance and access control systems into one innovative solution. The Security Centre is packed with powerful features yet employs a simple and efficient user interface.

It creates one of the most advanced unified security platforms available today. Managing all your systems from one efficient and user-friendly solution has never been easier. It standardises the common security operations such as monitoring, reporting, alarm management and configuration, and makes all tasks easily accessible via an intuitive client application. Now our customers can cost-effectively manage multiple security and safety systems, regardless of your organisation's size, locations or complexity.

The Security Centre encompasses:

#### **AutoVu – License Plate Recognition**

Our user-friendly LPR system accurately reads plates from virtually any country in both fixed and mobile applications, helping gaming facilities not only manage self-excluded gamblers but also greet and welcome VIP customers at the door. Gaming facilities also use AutoVu to identify stolen vehicles that are abandoned in parking facilities, strengthening ties with local law enforcement and offering their patron a safe visit. The AutoVu allows for more than just one way to maximise its usability.

- **Integrating Your LPR with Video** to quickly see who is approaching your facilities or corroborate facts in an investigation.
- **Preprogram Automated Alarms** to proactively respond to self-excluded gambler, VIP customers or stolen vehicle.
- **Conduct Data-Mining and Reporting** with LPR data based on date and time or complete and partial license plate numbers, or see how many cars entered your facility that day
- **Use LPR to Collect Visitor Data** where information and statistics can be used to justify facility improvements and support marketing strategies.

#### **Synergis – Access Control**

Synergis links cardholder pictures and credentials directly



within video tiles to help operators address access-denied events or other alarms. Supporting industry-standard HID modules, Synergis can grow beyond thousands of doors, readers and cardholders, while providing enterprise-level features that streamline processes across facilities.

- **Easily Manage Visitors to Your Building** by entering their information, assigning credentials, and printing badge from an easy enrolment tool.
- **Synchronising Access Control across Sites** with central management of cardholders, cardholder groups, credentials, badge templates, and more.
- **Eliminate Errors with Active Directory Integration**, syncing Windows user accounts with Synergis' accounts to automate cardholder account creation and deactivation.

- **Closely Monitor Access to High-Risk Areas** by creating zones with groups of inputs and have events within each zone generate alarms or custom actions.
- **Track Suspects through the Building** by switching from one camera to an adjacent one that is directly within a viewing tile or from a map layout.
- **Protect the Integrity and Privacy of Your Video** from operators by assigning permission rights when conducting a highly sensitive investigation.

#### **Omnicast – Video Surveillance**

Using advanced alarm management and playback controls, go from zero to 120 seconds with a click of the mouse, enabling more efficient daily retrieval, review, and export of video. Omnicast supports the latest H.264 HD and megapixel resolutions and delivers high quality video up to 30 fps, so you always get clear images.

- **Upgrade to Omnicast’s Virtual Matrix** that switches to IP streams and supports functions from existing CCTV keyboards, joysticks, and PTZ controls.
- **Be Alerted to Suspicious Behaviours** by having the system trigger specific actions such as start/stop recording, or pointing a camera to a specific preset when an event is detected.

#### **Our innovative, unified solution that delivers indispensable benefits**

Having a unified solution system provides countless of advantages and brings about a new era and meaning to security monitoring in gaming spaces and facilities. With our open-platform architecture, it gives you complete hardware freedom and allows you to leverage existing hardware investments. It also lets you readily incorporate third-party systems, including fire alarms, access control, video analytics, slot machine and other casino-related software under one unified platform. It allows for easy system integration.



The Security Centre likewise manages systems of any size, setting new standards in scalability. Whether combined or implemented individually, our solutions keep pace with your evolving requirements, integrating facilities, cameras and access controllers as needed. The Security Centre's Map feature lets

you rapidly pinpoint and pull up specific cameras and doors, facilitating time-sensitive investigations. Additionally, it supports failover options to ensure unrestricted 24/7 accesses to live and stored data and video at all times. The failover archiver automatically performs a failed component's functions while maintaining data integrity for both specific high-priority and all cameras.

Our multi-streaming capabilities allow you to manage video streams from IP cameras and video servers on the network. This includes the ability to configure your own storage requirements while optimising bandwidth management. Our multicasting feature lets you receive optimal video quality while not flooding the network beyond its capacity.

With the Security Centre, it helps in improving critical response time by indexing and analysing data from video analytics, fire alarm, access control, LPR, point-of-sale (POS) and casino software systems. It automatically alerts your security team to suspicious activities, facilitating immediate incident investigation. Pre-programming your own alert criteria further enhancing your team's efficiency and decision-making capabilities.

### A comprehensive security solution

Casinos and gaming facilities are often wide spread through acres of huge spaces. Naturally, with an extensive arena and the nature of services being offered to the public masses, high-level of security becomes a demand of its own. Thousands of guest sets foot onto the space daily, being exposed to even the smallest form of a security threat.

Essentially, there is a consistent need to keep up with evolving security technology to understand how to equip these facilities better and make it holistically protected. In the gaming industry, people, employees and facilities are prioritised as main assets. In turn, preconditioning casino managements to educate themselves with the best options and choices they have in tow for security solutions to



safeguard these assets.

The Security Centre is packaged with many other benefits that make security monitoring simplified and easy to manage. In big spaces such as a casino, there many specific areas that becomes a challenge to ensure it is full-proof safe and secured. But our unified solution systems is

built with the aim of being the most intuitive user interface by offering one-click access to tools that help you ensure your visitors and money are rightfully protected.

It is well-rounded approach that makes way for an improved and better way of managing security from various angles. Genetec's presents a complete and reliable system customised to what is most vital and required.

### About Genetec

Genetec is one of the leading IP security platform developers. They are pioneers in the physical security and public safety industry and a global provider of world-class IP license plate recognition (LPR), video surveillance and access control solutions to markets such transportation, retail gaming, government and more. In 1997, they developed the first full IP-based open architecture security system. Genetec's enterprise networked solutions have been shaping security management worldwide ever since.

Today their engineers continue to push back the technological boundaries in physical security and safety solutions. In turn consumers benefit from the industry's most advanced technology. This includes our ground breaking unified security platform. The Security Centre lowers your total cost of ownership while delivering superior reliability and investigation and response efficiency.

With sales offices and partnerships around the world, Genetec has established itself as the leader in innovative networked solutions by employing a high level of flexibility and forward-thinking principles into the development of its core technology and business solutions. Genetec's corporate culture is an extension of these very same principles, encouraging a dynamic and innovative workforce that is dedicated to the development of cutting-edge solutions and to exceptional customer care.

For more information, please visit: [www.genetec.com](http://www.genetec.com) **ESST**

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# Automated Key Control Systems Help Casinos Run A Tight Gaming Floor



An article by Fernando Pires  
VP, Sales and Marketing  
Morse Watchmans

In places and regions where authorised gaming has a presence, security for casinos is governed by strict rules and regulations that are established by various agencies. One of the most critical areas of casino security that is subjected to these conventions is key control. Physical keys are used to access all of the most sensitive and highly secured areas of the casino, including counting rooms and drop boxes. Therefore the rules and regulations that relate to key control are extremely vital in maintaining tight control and minimising loss and fraud.

Regulations pertaining to key control extend from procedures required to access drop boxes outside of scheduled hours to the number of signatures necessary for accessing keys that require a user to get multiple permissions for the specific key requested. Every activity must be recorded and reported for auditing purposes.

Casinos that previously used manual logs for key control were at constant risk due to inaccuracies inherent in the system, such as those concerning signatures that have gone missing or illegible. The manual sign-out process for keys was time-consuming and error-prone. Analysis reporting and investigation were highly labour intensive as they involved digging through piles and boxes of log sheets, also making it difficult to keep an accurate account of key use. These issues, along with the impact of the ever-increasing number of compliance rules, have prompted casino management to move from manual systems to the more reliable and convenient electronic key system solutions.

Electronic key control systems are a ready-made solution that offers multiple layers of security for access as well as automated reporting functions. Keys secured in the tamper-proof cabinets can be accessed by authorised individuals who have presented identification and been approved by the system to access the requested key. In some instances where access to certain keys or key sets that are highly sensitive is needed, compliance regulations require signatures from three individuals, one from each of three separate departments. Often, the three individuals would include a drop team member, a cage cashier and a security officer. The cabinet door will open and release the keys only after the three required logins are complete and the credentials verified.

Returning highly sensitive keys may be even more highly regulated, with multiple levels of security required. For instance, regulations mandating "Full Secure" would require that the same users who removed a key also return the key, while "Department Secure" would only require the first user's

credentials to match exactly while the other two users would have to match by department.

Additional rules further specify who can and cannot access keys. Access to table game drop box release keys is limited to the specific employees who are authorised to remove the table game drop boxes from the tables. These same individuals would be prevented from having access to keys for table game drop box contents at the same time they have taken out the release keys for table game drop boxes. Gaming regulations require a number of different types of audits on a regular basis to ensure the casino is in full compliance with regulations. For example, regarding employees signing the table game drop box keys in or out, Nevada Gaming requirements call for maintenance of separate reports indicating the date, time, table game number, reason for access and or electronic signature. Reports detailing unscheduled access, including the reason why the access occurred, for example machine jam, customer dispute, machine relocation or maintenance, are also required by many state and tribal gaming agencies. In today's mobile-centred environment, emails and SMS text messages to management can be generated automatically any time those

set of keys are accessed for unscheduled drops.

In addition to simplifying compliance with these varying rules and regulations, electronic key control systems improve convenience of key access. When using an instant key release feature, users need only to input their credentials, and the system knows whether they already have removed their specific keys. If they have not, the system unlocks and their keys are immediately available to them.

Returning keys is just as fast and easy. The process saves time, reduces training and helps to overcome any language barriers. Personnel like housekeepers and slot floor attendants can be organised into "groups". For each group, the hotel and casino would have multiple copies of the same respective key sets available. The system releases the next available set to each authorised user from a group, and cycles through the sets so that each gets equal usage. If compared to manual systems, electronic key control systems are always a good bet.

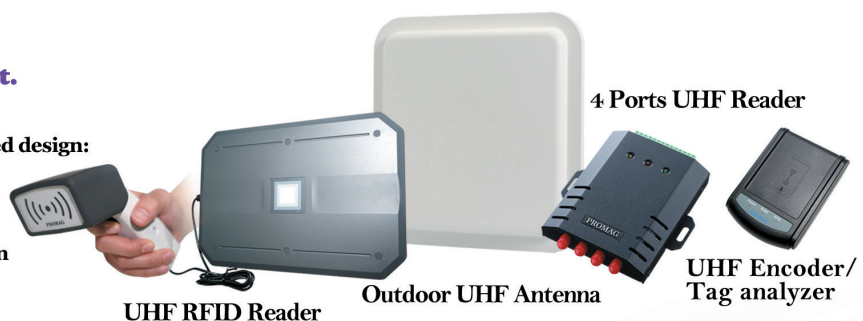
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# Black Oak Casino And Resort Upgrade Security Systems With Pelco

## Background

Set in the scenic foothills of the Sierra Nevada mountains, sits the Black Oak Casino Resort. Owned and operated by the Tuolumne Band of Me-Wuk Indians, guests are often greeted with the traditional native welcome of "M-Chucksus!"

The Black Oak Casino Resort provides 164, 000 square feet of gaming and entertainment options: a conference event center, real and video slot machines, table games, poker, nine restaurants and bars, a bowling center, players club, gift shop, and a kids' arcade. In addition, its entertainment venue, the Willow Creek Lounge, hosts live entertainment three nights a week. The casino also features the state's largest smoke-free gaming area. Edewaa Ti Foster, the Commissioner and Vice Chair of the Tuolumne Me-Wuk Tribal Gaming Agency had said that their aim is to offer their guests a resort destination for the whole family.

Providing an environment where there are activities for all ages whilst protecting the physical safety of its patrons, employees and others in the gaming facility as well as safeguarding assets that are associated with the facility is not an easy task. Therefore the type of surveillance security employed at the Black Oak Casino Resort becomes a top priority.

According to Todd Flowers, President of Surveillance Systems Integration (SSI), and also the man in charge of



managing the project that a property as large as the Black Oak Casino Resort, handling so many various activities simultaneously, keeping an eye on assets and balancing that with creating a safe environment is definitely a challenge.

## The Mission

The Black Oak Casino Resort, operating in Tuolumne since 2001, recently decided that it was time to upgrade its existing surveillance system to keep up with the changing needs of its facilities. The primary goals for the Black Oak Casino Resort were to switch to high definition cameras, enhance the

virtual matrix capability, provide a migration strategy and the equipment to upgrade to a full internet protocol (IP) – based system, and transition in a way that would be easy for the security staff to adopt and adapt to.

## The Solution

The project began with replacing the existing standard definition analog cameras with over 400 new high-definition (HD) fixed cameras, along with HD, 1080P Pan Tilt Zoom (PTZ) dome cameras.

In addition, SSI also removed the existing legacy analog video matrix that provided live video and control of

the existing analog PTZ cameras and replaced it with the latest Pelco Endura 2.0 Video Management System (VMS). The new Pelco 36 TB network storage managers were also installed to replace the legacy network video recorders (NVR) to accommodate the IP-based HD video.

The surveillance room was upgraded with a new video wall that included 20 46" class LED monitors, three 24" LED monitors and a 70" class LED monitor. The video wall monitors are driven by Pelco NET5402R-HD video decoders while seven operators have a VCD5202 video console display and KBD5000 series keyboard to view live and recorded video at each operator desk. SSI also provided



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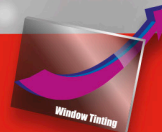
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additional video console displays, Endura Workstations and monitors for various personnel outside of the main surveillance room all credits due to the upgrade to a full virtual matrix.

## The Result

HD cameras offer the security surveillance employees and law enforcement officers superior access and usage of video surveillance with more detail and wider coverage, especially helpful for video review and identification purposes. Although HD images are larger and would naturally take up more bandwidth, and possibly clog up the IT infrastructure, there have been advancements like unique data routing protocols and advanced codecs like H.264 that are able to compress the video and audio for transmission with less bandwidth burden.

The change was made to the latest Pelco Endura 2.0 VMS was to allow full virtual matrix capabilities suitable for live surveillance applications as well as leverage the existing analog cameras, wiring, and control in a complete network environment. This upgrade provided a seamless migration to the new system while allowing the security staff to maintain full control on the existing legacy analog cameras; more importantly,



it created an expandable platform that would allow the addition of any number of new high definition IP cameras and operator stations without losing the responsive control and reliability of the virtual matrix. At the same time, it also allowed them to eliminate the potential of single points of failure so that the system could operate without interruption.

The new Pelco 36 TB NDM5200 network storage managers allowed existing MPEG4 encoded video streams from analog cameras in the

system to be recorded on the same platform as the new HD cameras that stream using the more efficient H.264 protocol.

Security surveillance goes above and beyond the walls of the facility and is critical in helping them provide their guests with a safe and consistent experience while having a fulfilling time within the vicinity of Black Oak Casino Resort's perimeters.

For more information, please visit: [www.pelco.com](http://www.pelco.com) **SST**



# The San Cruz Casino Upgrades Their Security Systems To Prepare For The Journey Miles Out At Sea

## Background

San Cruz offers its customers all the facilities and services they could need to make their cruise experience a dream journey. Each of the Sun Cruz vessels is a well-equipped casino with several hundreds of slot machines, major table games such as Blackjack, Craps, Baccarat and Roulette, as well as restaurants and live entertainment.

With thousands of passengers coming on-board on a weekly basis, security and safety is a key issue and needless to say, a high-end security solution was essentially needed. It was set to expose consumers to gaming efficiencies whilst feeling safe and protected, enabling them to maximise the experience.

## The Challenge

Vigilant was set the challenge of designing a video recording and analysis solution that would, on a floating casino, ensure personal security and also maintain the integrity of major gaming tables. Sun Cruz Casinos, which operates a number of casino cruise vessels off the Florida coast, subsequently commissioned Vigilant to work with the chosen system integrator, IEP Ltd. to provide and install an intelligent video event analysis system.

According to Chris Batog, Corporate Security Technician for Sun Cruz Casinos, they were looking for



Image Courtesy of The Florida Times Union

a stable and reliable enterprise-level digital video recording based solution with live and playback-monitoring capabilities via satellite to land. Mr Batog also added that the two major factors that helped in deciding on Vigilant were reliability and also the amount of advance features included in the price.

## About Vigilant

Vigilant Technology is a global leading provider of intelligent IP Surveillance and security solutions. The company offers a turnkey solution including video server, DVR/NVRs, intelligent real-time video content analysis and sophisticated, proactive control center solutions. Vigilant has a worldwide customer base and is globally supporting tens of thousands of cameras in airports, governmental sites, financial institutions, correctional facilities,

casinos, city centers and more.

## The Vigilant Solution

Before making the decision to go ahead with the Vigilant solution, Sun Cruz carried out evaluations of alternative systems from a major Japanese manufacturer as well as from local DVR manufacturers. The Vigilant solution – including the Vigilant Elite Digital Video Recorder and Vigilant ViewStation, was picked as the obvious winner. Measuring the situations and circumstances of a floating casino, the Sun Cruz went ahead with the security solutions offered by Vigilant. It was fast decision as they found reliability and the ability to function smooth without any sort of glitches.

For more information, please visit: [www.VGLNT.co.uk](http://www.VGLNT.co.uk) **SST**

# Advancing With Genetec's IP Surveillance Solution With Plans In Tow To Expand Sherwood Valley Rancheria Casino's Structure

## Background

Sherwood Valley Rancheria Casino is a Native American casino located in Mendocino County, California. With a gaming space of approximately 9 000 square feet, the casino is decked out with 220 gaming machines, numerous card tables and a favourite local restaurant by the name of Creekside Café. Employing over 260 staffs and with a total capacity of 1200 guests, Sherwood Valley Rancheria Casino draws in crowds of gaming enthusiasts looking to score the next big jackpot.



## The Business Challenge

With thousands of people and hundreds of employees involved in various functions related to money moving and out of Sherwood Valley Rancheria Casino, video surveillance, in accordance with the National Indian Gaming Association (NIGA), is an essential and intricate part of this heavy cash operating business. Sherwood Valley Rancheria Casino, employed an older VCR-based analog security surveillance system but after 13 years of operation, they eventually began to realise that the out-dated technology did not serve them as well as it once did.

With the need to respect the Sherwood Valley Gaming Commission and

NIGA standards, Sherwood Valley Rancheria Casino was accumulating a large amount of equipment and VCR tapes to record video footages from different sensitive areas around the casino. When incidents on the casino floor did occur, security operators were also constrained with a tedious and time-consuming process of having to remote a VCR tape, rewind it, search for the incident in question and also make sure to put a replacement tape back into the VCR recorder. This ultimately caused delays in investigative procedures, and inhibited security operators to act swiftly.

With notable expansion plans of a brand new facility, which would be

three times the size of the current casino looming in the near future. Their concerns mainly revolved around whether their hardware matrix system would be able to effectively manage the volumes of video and data that are required to uphold the standards of safety and security for all employees and guests of the new facility.

Keeping an open mind to the technology on the market and realising the value of a solid relationship with their integrator, Sherwood Valley Rancheria Casino turned to Brody Carlson, President of Connections IT to get the process of selecting a new video surveillance solution underway.

## Casino Security Needs

Given the mandate to find a new video surveillance solution, Kani Neves, Executive Director of the Sherwood Valley Gaming Commission, set out to research all the technologies available on the market in order to find the most optimal solution. It was a solution that will allow their security system to stay relevant even in the course of newer expansions and to increase their ability to respond to incidents more efficiently.

Knowing that there were many options from a technology selection standpoint, Neves demoed digital VCR solutions, DVR solutions and several advanced IP-based virtual matrix solutions but was ultimately looking for a system that would give his team the tools to be expeditious in response to time-sensitive incidents. More than that, he was looking for a system that would be flexible enough to allow him to keep some existing hardware investments, as well as making it more technologically advanced, which would permit him to grow the system seamlessly in the future.

When Neves finally had the chance to visit a nearby casino that had been using Genetec's advanced IP surveillance solution, Omnicast, he quickly realised, hands-on, the benefits that a surveillance system of such calibre could offer Sherwood Valley Rancheria Casino.

## The Perfect Solution

Initially, the 170 existing analog Pelco cameras were integrated on the virtual matrix system and another 25 new IP cameras were installed in sensitive cash areas and other more vulnerable parts of the casino. The entire system runs off three servers, including the use of one failover server for an additional back up of

archived video. Neves mentioned that the fact that Omnicast can manage an originally analog-based system and can still give them the ability to move comfortably into the future as everything goes IP-based is a great advantage.

In the beginning, the security operators felt somewhat intimidated but soon realised how easy it was to manoeuvre through the intuitive interface as well as how simple it was to implement their policies and procedures into the system. It presents multi-functionality options for the security team – for example if one person wants to use the mouse to control the Pan-Tilt-Zoom (PTZ), or the keyboard, they have the option.

Additionally, the casino's security team quickly began using the advanced alarm notifications and motion detection integration to monitor areas such as cashier posts and high sensitivity entry and exit points throughout the facility. Also, for the table games, they used Omnicast's dynamic boost quality functionality to configure cameras to CIF resolution when there was no detection motion, and then 4CIF when motion was triggered within the video. This not only allowed them to archive more pertinent data in high quality, but also contributed to significant bandwidth savings.

Since only commissioners can approve jackpots won over \$10 000, the remote access feature of Omnicast has proven to be extremely beneficial, as authorities can access video directly from their homes to approve such wins or even review other video where suspicion may have been involved. In cases of unidentifiable technical issues, their integrator, Connections IT, can also remotely connect to the system to see if they can pinpoint any problems, providing immediate support.

## The Benefits

Tangible benefits are already becoming obvious. They have been able to validate the fabrication of some patron's complaints, quickly identify customers who have been blacklisted, and catch visitors playing club member cards that have been accidentally left in the machine, avoiding major legal implications.

Not having to deal with VCR tapes, the ease of archiving and archive retrieval was an additional feature they came to really benefit from as well. Mr Neves states that if the operator happens not to catch an incident while watching the video footage, the ease of going back through the archive, pulling it up on screen almost instantaneously and letting the security personnel know the details as they walk out to address the situation, has helped them improve their response time.

They needed a system that would conform to their existing setup with analog and coax cables everywhere, give them the ease and flexibility of new technology but yet also, would be able to expand and adapt to their new casino and new environment. Therefore, incorporating Genetec's Omnicast was the perfect solution for Sherwood Valley Rancheria Casino.

With plans in the near future to build the brand-new facility that will boast an additional 400 game tables and that will be more amenities based with more commercial areas, sports bars and restaurants, Sherwood Valley Rancheria Casino will need to triple the amount of cameras in their current location and Omnicast will effectively be able to accommodate all their growth objectives.

For more information, please visit: [www.genetec.com](http://www.genetec.com) **ESST**

# Stones Gambling Hall Calls On Axis For Robust And Creative Casino Security Solution

## A wealth of options for security

Opened in 2014, Stones Gambling Hall is a card house in Citrus Heights, California offering poker, blackjack, baccarat, Pai Gow and other card games. The casino prides itself on its commitment to customer experience and its saloon-style atmosphere. So when planning its video surveillance system, it needed an option that could blend with the design while still providing the highest degree of protection.

## A wealth of options for security

To accomplish a security system tailor-fitted just for the Stones Gambling Hall, they asked Los Angeles, CA-based systems integrator and Axis partnering CCS to build a robust yet unobtrusive system that would maintain the casino's aesthetics.

CCS assigned Ryan Gleason as the Project Manager, and he was immediately tasked to working with the architect on systems selection and planning. Gleason and the design team selected Axis network camera for the job, as the deep product portfolio would allow them flexibility with a variety of options for each part of the casino. CCS installed a range of cameras offering high-definition (HD) resolution, discrete installation and options for remote maintenance and control. The system is managed



through Genetec Security Center, the unified security platform that includes the Omnicast IP video management system (VMS), and runs on Dell PowerEdge servers.

The breadth and flexibility of Axis' portfolio lets Gleason's team use an assortment of models and mounting options. For example, the card tavern section has a 30 foot vaulted ceiling with exposed trusses. Originally, Gleason planned to install cameras at the top of the ceiling to keep them hidden and out of plain view. Due of the height, CCS initially selected a model with interchangeable lens options. However, because of the

24/7 environment, Gleason decided a camera with remote focus and zoom was ultimately the best choice. After testing, the CCS team found a way to mount the camera eight feet lower than as per originally planned. This made way for the Stones Gambling Hall to upgrade to a HDTV 1080p AXIS P3346-V Dome Network Camera despite the fact it had a narrower focal length. For reason that it was a lower height, they were able to capture the same area with greater resolution and avoided dropping the cameras from a truss using conduit.

AXIS P3384 Dome Network Cameras with – Wide Dynamic Range –



Dynamic Capture were used near the entrances and exist to balance out the contrast between the indoor and outdoor lighting. CCS installed discrete AXIS P12 Series Network Cameras at facility choke points and certain high limit tables. Various customised mounting methods conceal the cameras, including inside the games' displays to provide a "dealer's eye view" of the table.

According to Gleason, one of the main benefits of using Axis is that it offers a product portfolio with dozens of different types of cameras, attachments, mounting assemblies and much more.

### Fast adjustments for the perfect view

The Axis cameras provided critical support for the Stones Gambling Hall's security team. The HD video was able to depict full detail of the card games and money-counting areas. The cameras can be adjusted remotely and because of this the casino can quickly change views to monitor specific areas. CCS was also able to integrate a custom application they developed to take snapshots with a touch of a button in order to help the casino streamline tax reporting on transactions over \$10 000.

The cameras are being monitored at all times through Genetec's Omnicast VMS, and the extra eyes provided critical support for security personnel on the card room floor. Using AXIS Q6045 pan/tilt/zoom (PTZ) Network Cameras, the IT team can quickly change views if on game draws a large crowd or an incident occurring somewhere in the facility.

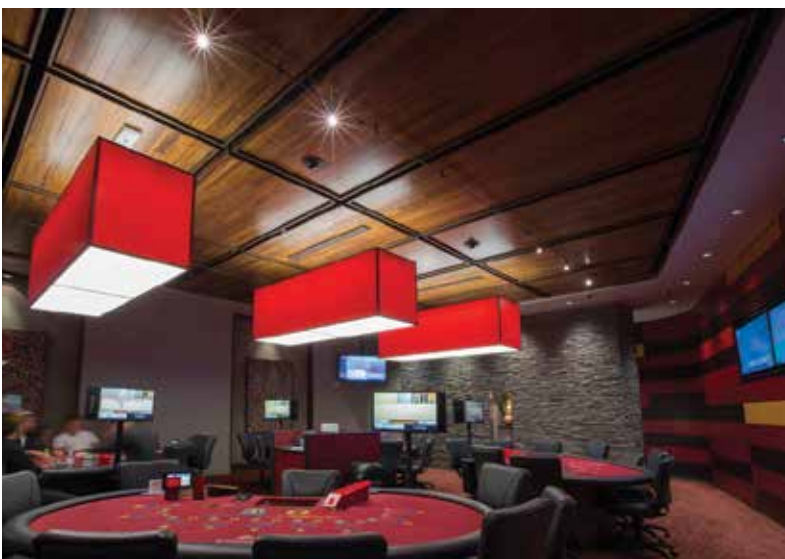
Furthermore, if the casino adds a new game, they can make remote adjustments to the focus and digital PTZ of existing cameras to ensure all views comply with local, state and federal regulations.

### Easy and inventive regulatory compliance

The open nature of Axis and Genetec products let Gleason find unique solutions to help the casino comply with regulations while maintaining its commitment to customer experience.

For an all rounded customer centred service like the Stones Gambling Hall offers, it reflects in the casino's integrity and their day-to-day operations. Gray reckons that the key is to consistently keep customers satisfied and it gets them coming back for regular visits to space.

For more information, please visit: [www.axis.com](http://www.axis.com) **SST**



# The Point Casino Upgrades To Mandatory Tribal, State And Federal Requirements

## Background

Located on the Port Gamble S'Klallam Tribe reservation in Kingston, Washington, The Point Casino features an impressive 650 gaming machines, 12 table games, a restaurant, deli, and event hall for catered for 700 people. To create a safe and welcoming environment for the casino's 1,000 daily guests, the Port Gamble S'Klallam Tribal Gaming Agency used the Avigilon high-definition (HD) surveillance system at The Point Casino to meet the stringent requirements of the Washington State Gambling Commission (WSGC) and National Indian Gaming Commission (NIGC). To protect tribal assets at The Point Casino, the Avigilon system was used to boost onsite security and protect against theft and fraud.

## The move to high-definition

The Port Gamble S'Klallam Tribe replaced the old Point Casino with a brand new 38,000 square foot facility that offers additional amenities, expanded gaming options,

and a larger parking area. With the new structure, it offered the sensible opportunity to upgrade from their old analog-based surveillance system to something more innovative, Linda Helm, executive director at the Port Gamble S'Klallam Tribal Gaming Agency, explicated. Todd Flowers, President of the SSI explained that the management wanted a robust surveillance system to help meet industry requirements while staying within their budget.

## An end-to-end solution

Mandated to ensure that all games and cash-handling areas are monitored at all time, the agency wanted an end-to-end surveillance solution that included the Avigilon Control Centre software, cameras, and Network Video Recorders to ensure high-level performance and reliability. The agency installed Avigilon HD 2MP cameras to cover game tables, slot machines, the cashier cage, vault, soft count room and main doors. Additionally they installed 46 Avigilon analog video encoders to improve the



performance of its existing analog-based cameras, which monitor the employees' offices, cafeteria and parking lot. The system is managed using the Avigilon Control Centre network video management software (NVMS) with HD Stream Management (HDSM) technology and is monitored live, around the clock from the control centre located in a separate building. With HDSM, the Tribal Gaming Agency uses Avigilon Network Video Recorders (NVR) to effectively store up to 21 days of continuous video footage. Casinos are required to record all the time and the amount of storage needed can be a lot. Avigilon delivers 21 days with minimal storage requirements, Don Purser, operations manager for the Port Gamble S'Klallam, noted.

### Fewer cameras to meet standards

Helm affirmed that the zooming capabilities, image clarity and advanced search and playback features of the Avigilon Control Centre software helped them capture the smallest detail to better protect guests and secure assets to meet strict industry requirements. The Tribal Gaming Agency recently had to request a variance to [art of 542 of the NIGC Minimum Internal Controls, which required two cameras at each roulette table – one to cover the overall layout and one focused exclusively on the roulette wheel. Purser stated that there was only need for one Avigilon HD camera to capture multiple images for broader and more detailed coverage at a significant cost savings. The casino tried using other cameras, but was unable to achieve the image clarity needed.

### Advanced search functionality

The Tribal Gaming Agency has been impressed with the advanced search and playback capabilities of the Avigilon Control Centre software, which has dramatically improved their investigative success rate. Justifying this, Purser mentioned that after a short training session, they are now experts in the system, which is much easier to use than their previous analog-based solution. Comparing then and now, events that used to take five or six minutes to pinpoint can now be found in less than 20 seconds. Another great feature is that the Avigilon Control Centre software automatically plays back a 30, 90 or 120 second timeline to expedite a search – a tool that is particularly valuable at the gaming tables. If a guest claims to have made a 20 dollars bet and they only paid out 5 dollars, they simply have to pull down the menu, hit the correct timeline, and see exactly what happened. Simply put, the casino can now resolve these issues 98 per cent of the time.



### Integrated security

Another convenient feature of the Avigilon HD surveillance system is that it easily integrates with other critical security solutions at the casino, including its access control systems and panic alarms. Purser rationalised that if a cashier pulls the panic alarm, an alert is immediately sent to the Avigilon system, which automatically pulls up an image of the scene. Previously, staff had to determine which panic alarm was pulled and which camera to look at, delaying the response time. At present, after the upgrade, they can automatically see what is happening and respond more quickly and with greater accuracy. Audio recording in the soft count room, where money from the slot machines is counted, is played over the workstations as well, offering another layer of security. The soft count and armoured vehicle entrance doors are also wired into the Avigilon system, so that surveillance staff knows who is entering and exiting these restricted areas.

### Conclusion

The Port Gamble S'Klallam Tribal Gaming Agency is confident that it has invested in the most advanced surveillance system available to capture the image clarity needed to meet mandatory tribal, state and federal requirements. The old system was slow, difficult to operate and unreliable, making it difficult to reach the level of surveillance they needed. However, after deploying the Avigilon HD surveillance system, broad coverage of the casino with fewer cameras is now possible, helping them maintain standards and stay within their budget.

For more information, please visit: [www.avigilon.com](http://www.avigilon.com) **ESST**

# Spotlight 29 Casino Deploys IP-Based Security Solutions

## Background

One of the major challenges for the hospitality industry, specifically casinos, is how to attract and retain guests while differentiating themselves in a crowded industry. In addition, casinos must decide which area of investment will get them the most return in revenue and loyalty.

Spotlight 29 Casino is located in Coachella, California. A Native-American enterprise, the facility is owned and managed by the 29 Palms band of Mission Indians. With the help of Digital

Telecommunications Corporation (DTC), an authorised NEC dealer in nearby Van Nuys, Spotlight 29 Casino implemented NEC UNIVERGE solution to streamline communications in its remodelled facility and to accommodate plans for future expansion.

## Challenges

Spotlight 29 shares the greater Palm Springs, California market with four other gaming casinos. To maintain a competitive advantage, Spotlight 29 decided on a full-facility upgrade, modernising the casino's gaming,

food, beverage and entertainment venues.

To create an ever-sustainable edge and increase its share in the gaming market, the casino made plans to add a 200-room, four-star hotel. Spotlight 29 has been an NEC end-user company for more than 10 years. While the existing TDM solution was reliable, the casino sought a pure-IP solution that would support more advanced applications, enhance communications in its existing facility and accommodate the casino's plans for future developments.

## Solution

DTC proposed NEC's UNIVERGE SV8500 Communications Server; a solely IP-based platform to meet the casino's technology needs during and after its remodelling and expansion. Bob Bliss, DTC's president praised NEC as having one of the most trusted technology and team of experts. The proposed DTC's proposed solution would provide Spotlight 29 a cost-effective way to enable their plans to grow the business.

Spotlight 29's technology staff researched various solutions before narrowing the choices to two vendors, one of which was DTC. The NEC/DTC team invited members of the casino staff to NEC's Executive Briefing Centre in Dallas to further demonstrate NEC's current and further technology capabilities, particularly within the



Image Courtesy of Visual Terrain

hospitality industry. Tammy Thomas, the contact centre manager for the Spotlight 29 Casino felt that the visit helped in making the final decisions as it showcased NEC's true capabilities. NEC has not only kept up with the latest technology but was also more cost saving than other solution providers with similar products.

Spotlight 29 ultimately chose the NEC solution because of the price and expandability. Jim Galvan, information technology director of Spotlight 29 Casino explained that other options would have been much more expensive in terms of time, money and complexity. Galvan shared his rationality of NEC solution being more cost-effective and it was much simpler to implement the whole system into the casino grounds.

Since Spotlight 29's existing system was also an NEC solution, DTC performed a cable migration to the UNIVERGE SV8500. The cable migration allowed the casino to convert to a full IP environment and supported its current and future plans for expansion. Galvan continues to explain that NEC's pure IP solution was aligned with Spotlight 29's technology strategy and architecture and gives them the flexibility that they will need in future.

The transition to an IP-based environment also allowed the casino to upgrade other elements of its communications solution. NEC's UM4730 and IP terminals enhanced voice services for employees, which improved communications and productivity. Thomas elaborated that they can transfer a caller directly into voicemail without having the phone ring and they also have shortcuts when listening to their messages,

saving them a lot of time.

Spotlight 29 also implemented NEC's UC for Enterprise (UCE), a powerful combination of applications designed to further streamline communications and productivity. The UCE Contact Centre application allows the casino to track inbound and outbound call flow throughout the facility, improving customer service and operational efficiencies. With UCE Contact Centre's in depth reporting capabilities, they can know how much call volume each department gets each day as well as the details like callers' average speed of answer. This also allows them to distribute calls among agents and optimise staffing for peak call volume.

The UCE Manager simplifies management for the entire solution. A web-based, centralised management system, the UCE Manager allows the staff to remotely manage and support the day-to-day tasks for the casino's IP servers and applications. With the MA4000, changes can be made like adding extensions, changing name and call forwarding without leaving the office and changes can be made directly from the desktop and the application is very user-friendly.

## Results

Spotlight 29 Casino has benefitted from its new, full IP solution, particularly in terms of cost-savings. With the NEC solution, they were able to get rid of their copper and analog lines and received some cost-savings from overall phone-system management, productivity costs and short deployment lifecycles. Switching to an IP-based communications platform has also enabled applications that

deliver other cost-savings areas, for example, allowing them to optimise staffing level and make their contact centre a lot more productive, delivering immediate cost benefits to the organisation. It has also enabled them to provide better experience for their guests, which can improve customer loyalty and yield even greater cost benefits in the long run.

The casino plans to leverage its UCE Collaboration application for additional cost-savings. They have planned on using the UCE Collaboration video conferencing for training, sales and communications with the tribal board, which will allow them to communicate with dispersed groups of people in real time, without having to travel.

Spotlight 29 Casino has also improved productivity within its IT organisation. UCE Manager provided them with tools to manage day-to-day tasks with much more ease allowing their staff more time to concentrate on higher priorities throughout the casino.

Thomas is now confident that the casino's new solution prepares the casino for future expansions. They knew that upgrading their communications solution was critical to expanding user and management capabilities. Their switch to NEC IP solution has positioned them to seamlessly expand and integrate their plans of future expansion of the property.

For more information, please visit:  
[www.nec.com](http://www.nec.com) **SST**

# Axis Brings Megapixel Video Advantages For Newly Opened Casino In Bulgarian Resort

## Requirements beyond the limits

RIU Pravetz Golf & Spa is a luxury hotel in a unique location. The Casino was added as the final piece to the puzzle. The facility offers several restaurants of varying sizes, and features conference halls and many other venues for corporate events and conferences. Majority of the visitors look to the varied services they have to offer, especially so for the casino arena, hence demanding a high level of security. A key factor for guests' comfort is ultimately

feeling safe and protected when it comes to enjoying the night at a roulette table or a blackjack game.

Real-time video and image recording must contain as much of the details as possible. This was the mandatory requirement from the security officers when talking about the casino business. Hence the decision to investor decided to step ahead of the current regulations and invest in a future-proof high-resolution IP-based video surveillance system.





Specific requirements became the basis for the sophisticated IP solution. The cameras had to be used for general surveillance but at the same time focusing on the tables when required. Identification of even the smallest subject was a must. Several tests with various types of equipment took place to show the best performing vendor in this specific environment.

The real-time live view and huge volumes of recordings placed demanding requirements for the network and especially the servers.



### Next generation solution for casinos

Test results and previous experience led the engineering team to the right solution of Axis IP video surveillance and a Milestone XProtect® video management system. Axis provided various options for the cameras, depending on the floor height, mounting specifics, lighting scenarios and resolution requirements. Based on all those specifics, the design of the system included 5 different camera types:

- AXIS P3301
- AXIS 215 PTZ
- AXIS P3344 (1 megapixel)
- AXIS P1346 (3 megapixel)
- AXIS P5534 PTZ (1 megapixel)

Megapixel cameras provide the highest level of details for the games in progress, while lower-resolution cameras provide an overview of the non-critical areas of the casino. Milestone XProtect® Corporate video management software runs on IBM servers to provide the central monitoring room with live view and reliable recording capabilities.

In order to optimize the network traffic and at the same time keep the quality of the image, H.264 compression was widely implemented in the system. This approach also reduced the volume of the archives.

Different types of storage technologies were introduced to meet the requirements of the recording speed and volume. Having 25 fps for 3 megapixel and 1 megapixel cameras proved to be a major challenge for Telelink team. Fast and well-organised SAS disks handle the video streams as initial recording destination, and the oldest video is transferred to a long-lasting SATA storage archive. The unified playback in Milestone XProtect® allows the use of different archive locations, depending on the speed and storage requirements.

### Real-time extreme quality

The final result is a sophisticated real-time high-resolution IP-video surveillance solution with extremely detailed recording and advanced management. Each move and action can be played back from several different angles and views, if necessary. The Pravetz Resort Hotel Casino is now operating a surveillance system with megapixel quality records and real-time live view. Time shall prove the concept in this market segment.

For more information, please visit: [www.axis.com](http://www.axis.com) **SST**

# Safe And Secure Gaming Experience At Prairie Meadows Racino With Avigilon's IP-Based Surveillance

## Prairie Meadow's grounding

Prairie Meadows Racetrack Casino Hotel and Conference centre was developed in the 1980s by the Polk County community, at a time when Iowa's agricultural industry was hard-hit. Spanning one million square feet, Prairie Meadows served more than three million customers in 2013. The space was basically a horse track, casino and hotel, all in one, in Altoona, Iowa. Its creation was a foundation for jobs, to foster agriculture, boosting of tourism and to stimulate the economy. Although Prairie Meadows functioned exclusively as a horse track at first in 1989, it quickly morphed into the nation's first "racino" – a combination of horse track racing and casino, in 1995. Today, Prairie Meadows offers a 168 roomed hotel, more than 2000 slot machines, 50 gaming tables with live

and simulcast of horse racing, ticketed entertainment, restaurants, lounges and approximately 21, 000 square feet of conference space. Similar to many casinos and resorts, customer safety and asset protection are top priorities to the management.

## The challenge

The management instantaneously knew that there was need to provide a safe entertainment for the guests, protect high-value assets, and comply with state-mandated security requirements. In 2011, the Prairie Meadows began researching for a user-friendly solution to meet the growing needs and demands of its business operations. Brian Reffett, surveillance manager of Prairie Meadows explained that what the space needed was an IP-based surveillance system that would meet state requirements and will be able to grow alongside the casino's expansion.

## The solution

Under the recommendation of USA Security, a local provider of surveillance system design and installation, Prairie Meadows selected the Avigilon high-definition (HD) surveillance system for its advanced functionality, excellent image quality and reliability. Complete coverage of the casino with more than 200 Avigilon™ HD 1MP, 2MP, 3MP, 5MP, and 16MP cameras and 200 Avigilon Analog Video Encoders to capture better image quality from its existing analog cameras. The system is monitored live, 24/7 using the Avigilon Control Centre (ACC) network video management software (NVMS) and 30 Avigilon HD Network Video Recorders (NVRs), which stores a minimum 7 days of continuous footage of the gaming floor and all other areas. The casino also deployed the ACC HD License Plate Recognition (LPR) solution and plans to add more Avigilon HD 2MP cameras and Avigilon HD PTZ cameras in the second phase of its installation.





### **An all-new security entity**

With Avigilon's security solutions, it made way for new levels of safety and protection achievements. Vital details like quality images, faster search times, lower bandwidth and storage requirements and faster response to incidents due to better overall protection were all made possible.

### **Better time management**

With its user-friendly interface and advanced search capabilities, the Avigilon Control Centre software dramatically expedites searches and investigation. Reffett confirms that their security team have been able to cut down their search times from hours to minutes. Monitoring such a large space, the integrated mapping feature helps the team quickly pinpoint an area of interest with the click of the mouse. Leveraging the thumbnail search feature, users can efficiently look through thumbnail-size frames to find changes in a scene. ACC's pixel-search feature helps identify motion events so users can quickly and easily find an incident in question. When arrow keys on the keyboard to cycle through footage is enabled, it allows greater speed to the whole process and provides greater accuracy. With

the time saved, ease of use and accuracy of the Avigilon system, employees can be redeployed to other tasks to ensure the swiftest gaming environment.

### **Better video quality**

By delivering high-quality video evidence that is easy to manage, the Avigilon solution has dramatically improved the casino's ability to respond to security events and resolve incidents. At the same time, the new system is more cost-effective than others because licensing fees are only applied once, unlike other vendors that charge extra. The Avigilon surveillance system also delivers greater uptime and requires less maintenance and support for additional savings.

### **Lower power consumption**

Prairie Meadows has also noticed a marked reduction in power consumption since deploying the Avigilon system, leading to even greater utility savings. Reffett is impressed with all the benefits Avigilon's system has brought along.

For more information, please visit: [www.avigilon.com](http://www.avigilon.com) **SST**

# Marina Bay Sands Integrated Resort Built With CEM Systems

## Background

Marina Bay Sands Integrated Resort (MBS) is one of the world's most challenging construction projects and the most expensive stand-alone integrated resort property ever built. Located along the Marina Bay waterfront in Singapore, the MBS includes 2500 rooms, two theatres, a nightclub, a Las Vegas style casino and a museum, which will be showcasing international exhibitions. The £4 billion development will change the face of Singapore's tourism industry. The hotel is made up of three fifty-five story towers

and boasts a spectacular landscaped roof garden coupled with a swimming pool.

## Securing the impressively magnificent space

To secure this impressive site, MBS chose the CEM AC2000 SE (Standard Edition) security management system. This system offers a flexible and versatile solution, providing a powerful and fully integrated access control, alarm processing and photo badging system. The AC2000



SE is continuously developed to meet the most difficult of security needs, providing a highly stable solution for installations where security is of paramount importance. It is relied upon to secure access to important areas such as the casino vault and specialised security departments used to survey the casino floor. AC2000 SE utilises CEM's advanced range of hardware products including intelligent IP card readers. The CEM S610e and S610f fingerprint readers have been installed in high security areas with third part readers installed at less secure areas.

### CEM IP card readers

MBS is fitted with over 500 S610e access control readers that supports all card technologies and has a large graphical LCD, which is used to display a number of messages to cardholders depending on their privileges, for example, 'Access Denied', 'Wrong Time Zone' or 'Card Expired'. The reader, which has on-board Ethernet connection, communicates directly with the AC2000 host server removing the need for an intelligent control pane in the system design. With an internal database the S610e gives full off-line card validation and decision making at the point of entry, even when host communication is not available.

The project also used over 100 S610f fingerprint readers to control access to restricted areas where an additional biometric layer of security is required.

### Cost-savings with PoE+ DIU 230

PoE+ technology was used throughout MBS. Where a high level of security is required and cabling must be kept to a minimum, the CEM Door Interface Unit 230 (PoE+ Door Interface Unit) offers the ideal solution. It is the first controller in the industry to reliably supply power and communications to a complete door set via one Cat 5e / 6 cable. The key benefit of the DIU 230 PoE+ is that it eliminates the need for both a main connection and a local power supply to the door. Therefore there is no need for door supplies anywhere else within the resort.

### Full integration

This project required integration with a number of external systems. CEM was required to integrate with the Central Control Monitoring System (CCSM), the Key Management System, the CCTV system and the HR system amongst others.

BacNet protocol was used for High Level Interface (HLI) to the CCMS system. The HLI allowed CEM to send any water leaking status to the CCMS. If a water leak is detected, the CEM system would send alarms to the CCMS system. This was an important issue due to the fact that the hotel has a rooftop pool therefore any water leaks could result in serious consequences.

The security team at MBS requested an XML interface from the HR system to the CEM access control system in order to populate basic staff information. It was important for the MBS security team to be able to efficiently manage employees' details. The interface fields can be used for collecting uniforms, fast food access and ID badging. The CEM Visual Imaging Pass Production System (MIPPS) allows users to produce permanent and temporary ID badges. Security staff can enrol users and capture fingerprint templates using a user-friendly ID badging application.

The Key Management System increases security around significant areas of the resort. CEM Systems developed an interface to automatically transmit card data from the AC2000 system to this management system. A file, which contains the full list of key safe users, is sent to the key system and the necessary user records are created.

The AC2000 SE system at MBS was also integrated with the CCTV system. The AC2000 external interface enables the administrator to specify that when a particular alarm occurs on a CEM device, a message or a command is sent to the third party. For every alarm that is triggered, every detail such as the alarm name, location of the alarm and the date and time at which it occurred is being sent through via the AC2000.

### Conclusion

For a space as gigantic and immaculate like the MBS, it required proper planning of how the security systems are going to run throughout the entire structure. The powerful and fully integrated access control system will allow guests, visitors, staff and tourists to feel secure while enjoying the atmosphere. With the CEM AC2000 SE, there were so many benefits and advantages that MBS could capitalise such as saving costs. CEM Systems have provided MBS with a future proof and fully integrated security solution that has been designed to grow along with the resort.

For more information, please visit:  
<http://www.tycosecurityproducts.com> **SST**

# *The Convergence Of IT Security And Physical Access Control*





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## Introduction

Organisations are increasingly adopting a model in which multiple access control use cases and identities that can be supported on a single card or smartphone, this eliminate the need to remember passwords, or carry multiple cards. This convergence allows smart cards or smartphones to manage network and physical access, accessing cloud-based applications and enables other applications including cashless vending, time and attendance and secure print management.

There is a growing demand for provisioning IT and physical access control system (PACS) credentials to a single card or smartphone using a single set of processes. The convergence of credentials onto a single card or device can greatly improve security and reduce ongoing operational costs. It also centralises identity and access management, consolidates tasks and enables organisations to quickly and effectively use strong authentication throughout their infrastructure to protect access to all key physical and IT resources.

The new, integrated credential management model moves organisation into four vital directions: 1) beyond cards to smartphones, 2)

beyond readers to “tap-in” access convenience, 3) beyond Public key Infrastructure (PKI) technology to simplify solutions for higher security and 4) beyond legacy PKI to true converged strong authentication access control.

This article intends to educate readers on the different drivers, challenges, deployment options and results associated with a converged IT and physical access control solution while describing the value of a seamless user experience when using cloud-based applications and services, accessing data, and opening doors. It also explains the benefits of unified enrolment processes and workflows spanning multiple identities across multiple IT security applications and the PACS.

## Understanding the drivers for convergence

Generally, the focus for organisations has been on creating a strong perimeter to secure access to their physical and IT resources. Legacy access control relies on a user presenting an ID badge to gain entry into a building, and once inside, using static passwords to authenticate IT resources. Given the nature of today’s Advanced Persistent Threats (APTs) and all the internal risks associated

# SECURITY FEATURE THE CONVERGENCE OF IT SECURITY AND PHYSICAL ACCESS CONTROL

with Bring Your Own Device (BYOD) adoption, these methods of securing access are insufficient.

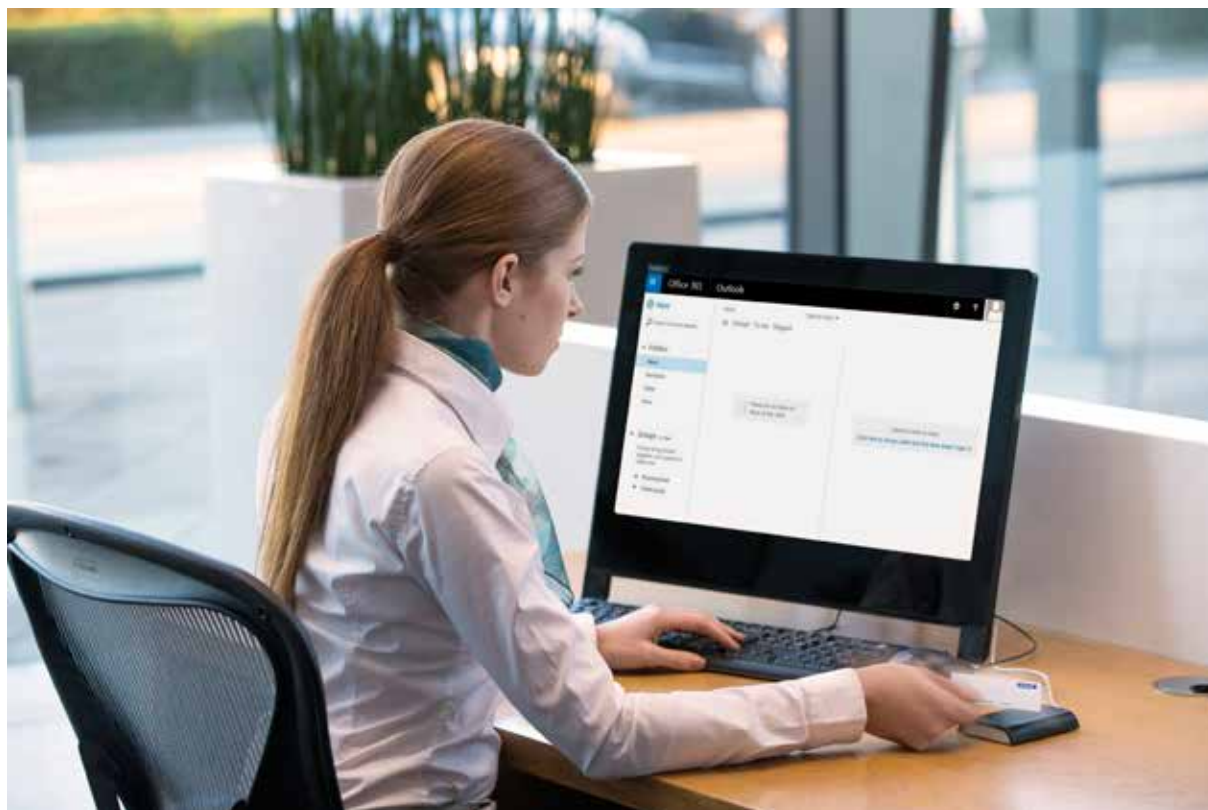
Organisations require the ability to better control access and employ strong authentication throughout their infrastructure as part of their multi-layered security strategy. Unfortunately, most available solutions are inadequate in their security capabilities, the costs and complexities they introduce for the organisation, or the user experience.

Employees want the convenience of being able to use a single card or mechanism to quickly and easily access the resources they need to conduct business. To accomplish this, organisations must deploy a solution that can be used to secure access to everything from the door, to data and the cloud. They must combine the traditionally separate domains of physical and IT security, and management of users' identities and access into one credential.

## The value of converged access control

Truly converged access control consists of one security policy, one credential and one audit log. In some organisations, user management is already fully converged with a single corporate policy that defines acceptable access and uses of resources, a single master user repository, and a single master user repository, and a single logging tool for simplified reporting and auditing. This approach enables enterprises to:

- Deliver convenience – replaces one-time password (OTP) token and key fobs, negating the need for users to carry multiple devices or re-key OTPs to gain access to all the physical and IT resources they need.
- Improve security – enables strong authentication throughout the IT infrastructure on key systems and applications (rather than just at the perimeter).
- Reduce costs – eliminates the need to invest in multiple access solutions, centralising management and consolidating tasks into a single set of administration.



### Exploring multiple deployment options

With a converged access control model, the credential can be delivered in a variety of form factors, such as a smart card or even a smartphone. Depending on the enterprise's requirements and existing infrastructure, there are several ways to architect the solution. The following are the three most common models:

- Legacy contactless:** Enables an existing card-based physical access control system utilising technologies such as iCLASS Seos, iCLASS SE, standard iCLASS, MIFARE and MIFARE DESFire to be extended to authenticate to enterprise networks and applications. Software is deployed on the end user's workstation, with a contactless reader connected to or embedded in it. This is convenient for users, who can take the same card they have been using with a door reader and tap it to a personal computer or laptop in order to gain access to their computer or cloud applications.

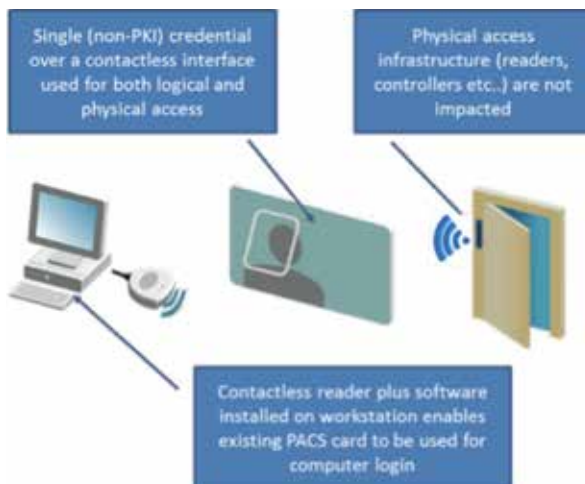
This approach does not employ PKI, which binds public keys with user identities through a Certificate Authority (CA). PKI's strong authentication is a key element of logical access, digital document signing and highly secure access control for sensitive areas such as power stations, data storage, nuclear power or water and petrochemical facilities. A digital certificate, including the user's public key is placed on a Personal Identification Verification (PIV) card, which leverages on smart card and biometric technology and also supports multifactor authentication methods.

The legacy contactless approach eliminates many of PKI's key management challenges, but it also supports a more limited range of use cases and does not deliver the same security strength as PKI-based solutions.



- Dual chip card:** Embeds a contactless chip for physical access control and a contact chip for logical access control on a single smart card. Credentials, such as PKI certificates and OTP keys, can be managed on the contact chip using a Card Management System (CMS).

The dual chip model is popular with medium to large enterprises with sensitive intellectual property (IP) or customer data on their networks, because it delivers strong security. It also enables the enterprises to simplify management of their IT security infrastructure and leverage their existing PACS investments because, in many cases, the CMS can be integrated directly into the PACS management system.





- **Dual interface chip cards:** Leverages on a single PKI-capable chip, with both a contact and contactless interface to support both physical and logical access control. The card can be used to support a contact card reader for logical access use cases, such as logging into a computer or signing an email, and PKI authentication for physical access.

By default, PKI over a contactless interface can be slow for physical access usage. To address this challenge, FIPS 201-2 is expected to allow the use of the Open Protocol for Access Control Identification and Ticketing with privacy (OPACITY) suite of authentication and key agreement protocols that will add roughly four times the performance for critical tasks. It will also deliver secure wireless communications, which enable the use of PIN and biometrics on the contactless interface. This will further strengthen authentication for both physical and logical access control.



## Bringing strong authentication to the door

An important benefit of convergence is that it allows enterprises to leverage on their existing credential investment to create a fully interoperable, multi-layered security solution across company networks, systems and doors. Strong authentication will increasingly be employed not just for remote access but also for desktops, key applications, servers, cloud-based systems and facilities.

One of the first places this will occur is in the federal space with users' existing PIV cards. To use a PIV card to enter a building, the card's digital certificates are checked against a Certificate Revocation List (CRL), which is provided by certificate authorities. PKI authentication is a highly efficient and interoperable method not only for logical access control to protect data, but also for physical access control to protect facilities, the latter referred to as "PKI at the door."

It is expected that PKI at the door will become more widely adopted as FIPS 201 evolves and there are more products available to support it. There will also be significant opportunities to deploy PKI at the door at lower cost with Commercial Identity Verification (CIV) cards, which is technically similar to PIV cards, but do not carry the additional requirements associated with being trusted by the federal government. Unlike federal agencies, CIV card users do not have to purchase certificates from a trust anchor or pay annual maintenance fees, but instead generate their own certificates. While the cards will be a little more expensive to accommodate the extra memory for certificate storage, this modest incremental cost will deliver the valuable additional benefits of stronger authentication at the door.

Extending strong authentication throughout the physical and logical access control infrastructure will be important to the enterprise. Organisations need a range of authentication methods, along with the flexibility to easily support different users and protect different resources appropriately. With simple-to-use solutions, enterprises can secure access, from managed and unmanaged devices, to an enterprise's resources. Without having to build or maintain multiple authentication infrastructures, enterprises can use a single solution to secure access to all their resources, from a facility door or copier to a VPN, terminal service or cloud-based application.

## What about mobile?

According to ABI, there will be 7 billion new wireless devices on the network by this year. Mobile access control requires rethinking on how to manage physical access credentials, and make them portable to smartphones so that organisations have the option to use smart cards, mobile devices or both within their PACS.



To do this, HID Global has created a new data model for its iCLASS SE platform called the Secure Identity Object (SIO) that can represent many forms of identity information on any device that has been enabled to work within the secure boundary and central identity-management ecosystem of the company's Trusted Identity Platform (TIP). TIP uses a secure communication channel for transferring identity information between validated phones, their SEs and other secure media and devices. With a mobile access control model, any piece of access control data can be supported on a smartphone. The authentication credential will be stored on the mobile device's SE, and a cloud-based identity provisioning model will eliminate the risk of credential copying while making it easier to issue temporary credentials, and monitor and modify security parameters when required.

Users will be able to carry a variety of access control credentials, as well as an OTP computer log-on token on their smartphone that they simply tap to a personal tablet for authenticating to a network. By combining mobile tokens on a smartphone with cloud application single sign-on capabilities, it will be possible to blend classic two-factor authentication with streamlined access to multiple cloud applications on a single device that users rarely lose or forget.

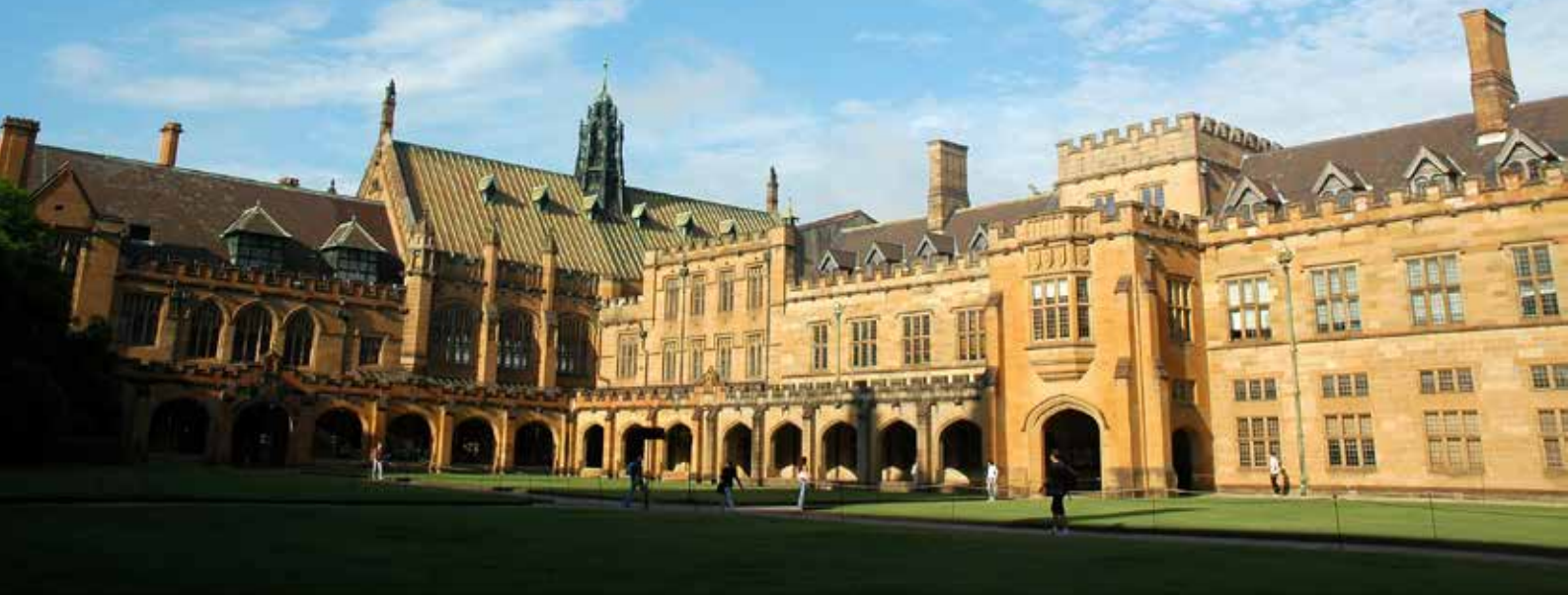
There will be challenges to solve since smartphones and

other mobile devices being used for physical and logical access control applications will often not belong to the organisation. It will be critical to ensure the personal privacy of BYOD users, while protecting the integrity of enterprise data and resources. We will need to find new and innovative ways to address these and other challenges.

### Realising the benefits of true convergence

The ability to combine access control for physical and IT resources on a single device that can be used for multiple applications, improves user convenience while increasing security and reducing deployment and operational costs. It will eliminate the need for separate processes for separately provisioning and enrolling IT and PACS identities. Instead, it will be possible to apply a unified set of workflows to a single set of managed identities for organisational convergence. Organisations will be able to seamlessly secure access to physical buildings and IT resources, such as computers, networks, data and cloud applications. An effective solution will also scale to secure access to other resources, as needed, to support a fully interoperable, multi-layered security strategy that can protect the organisation's buildings, networks, systems and applications, now and in the future.

For more information, please visit: [www.hidglobal.com](http://www.hidglobal.com) **ESST**



# University Of Sydney Reduces Crime By 25 Per Cent Annually

## Background

With 32 000 full-time students, 16 000 part-time students and another 16 000 staff and affiliates, the University of Sydney faces the same security risks as a small city, which includes, theft, disorderly conduct, assault and vandalism. Manager of the campus security unit at the University of Sydney, Morgan Andrews revealed that the university is spread across six campuses, more than 530 hectares of open space, and 640 000 square metres of indoor area and actually have their own postal code. Founded in 1850, it is one of the oldest universities in Australia, attracting students, staff and researchers from all over the world to its state-of-the-art campus. With an existing analog-based system in some of its buildings, the University decided that it was high time to expand coverage to all

major open spaces like pedestrian corridors, athletic fields and all entry and exit points. They were dedicated to providing a safe and secure environment in which staffs and students can achieve their teaching, learning and research goals. After undergoing a thorough review of the seven high-definition (HD) surveillance system manufacturers, the University of Sydney selected Avigilon for its superior image quality, ease-of-use and cost effectiveness and be used as a key element of its campus-wide security plan.

## The logical solution

A total of 100 Avigilon HD cameras ranging from 1 MP to 16 MP have been installed to date to provide coverage of the Camperdown/Darlington and Cumberland campuses, monitoring all entry and exit points. 24-hour learning

areas such as computer labs and libraries and most high usage, open areas. The University has deployed Avigilon HD 360 panoramic dome cameras to monitor small classrooms and labs. To improve the performance of its existing 190 analog-based cameras, Andrews deployed Avigilon analog video encoders. By dramatically improving image quality, the Avigilon analog video encoders have extended the life of their existing analog-based cameras, saving them a significant infrastructure investment. Security officers monitor the Avigilon HD surveillance system 24-hours from a central control room using Avigilon Control Centre Enterprise Network Video Management Software (NVMS) with HD stream management, which was built from the ground up to manage HD surveillance video. The University stores 30 days of continuous surveillance footage

on virtual servers that are located offsite.

### **Fewer cameras, fewer infrastructures**

One of the key selling features of the Avigilon HD surveillance system is that it delivers superior image quality with fewer cameras and infrastructures. With exceptional image quality and zooming capabilities, they were able to install Avigilon HD 11 MP and 16 MP cameras on their buildings and leverage on their existing network infrastructure, saving them time and cost. By installing Avigilon 360 panoramic HD cameras in some of its smaller spaces, the University has achieved further cost savings. They can monitor their classrooms and labs with just one Avigilon 360 panoramic HD camera instead of two of three analog-based cameras.

### **Usability for greater efficiencies**

The search capabilities within the Avigilon Control Centre software

have proven invaluable for security officers, who have reduced investigations from days to hours to just minutes. For example, the University installed just one Avigilon HD camera to monitor its entire boardwalk, an area that would require up to 15 analog-based cameras. In fact, the University recently leveraged the Avigilon HD surveillance system to capture indisputable evidence of a robbery that occurred on the boardwalk, which resulted in an arrest and conviction. The system has played a key role in multiple investigations because the University can provide information to local police to finalise a criminal incident.

### **Surveillance integrates with access control**

One of the key requirements for the new HD surveillance system was that it was able to easily integrate with the University's existing Cardax access control and intruder alarm system to further assist in investigations. Andrews stated that with the integration, they

could better assess a situation before we dispatch their guards out to the point of occurrence. They can now determine the nature of the call and prepare our officers to handle the situation appropriately. Furthermore it helps to save time, freeing up guards from having to respond to non-urgent situations like when an alarm is accidentally set off.

### **The success**

There is no doubt that the Avigilon HD surveillance system was a smart and logical choice for the University of Sydney, enabling the enhancement of surveillance across its two main campuses, saving of time and reducing crime rates. It played a key role in the fact that crime was reduced by 25 per cent year-over-year since 2009. Their plan is to install several hundred more Avigilon cameras in high traffic areas.

For more information, please visit: [www.avigilon.com](http://www.avigilon.com) **ESST**





Image courtesy of MaltaSicily

# Safeguarding A National Treasure With Dahua

## Introduction

According to UNESCO, Italy has the one of the greatest number of heritage sites in the world. The Island of Sicily, off the south of Italy, is home to a great portion of these historical monuments and amongst them is the Duomo di Monreale Cathedral. Famous for its glorious golden mosaics, Duomo di Monreale was built in the 12th century as part of a grand royal complex, fusing Byzantine, Arab and Norman styles. Both its exterior and interior decoration, including its bricks, mosaics and bronze doors represent a magnificent demonstration of ancient arts. For such a national treasure like the Duomo di Monreale, it is vital that it is well protected and preserved with the best and most modern technology.

## Solution

While considering a solution scheme, the one thing that they had to bear in mind was to maintain the historical characteristics of the building and IP technology was undoubtedly the best way forward as it allows for minimum cabling, therefore less invasive. This ensures that the delicate and subtle décor and surroundings of the cathedral remained intact. Moreover, with dim lightings used inside, the camera's low illumination performance needed to be excellent. For this unique case, Dahua and its megapixel solutions were selected as the best fit for a space like the Duomo di Monreale.

After taking all of these considerations into account, 8 units of the Dahua 1.3MP IR dome cameras were used, and the resulting video streams are processed through a PoE switch to a 16-channel Network Video Recorder (NVR), where

images are stored in high-definition (HD) quality at 720p, with a recording bandwidth of up to 32 md/s at 200fps.

For the exterior, the Dahua, 1.3MP mini IR-bullet camera was installed for its discreet appearance and superior night vision performance. Additionally, as per requested by the client, the system runs via the Dahua PSS, a central management system to view images locally and remotely through ADSL/3G connections. The system as a whole is cascaded to its upper platforms of the Monreale Archdiocese, and the data can be transmitted to other public as well as private organisations in order to better promote Sicilian culture and tourism. This project was successfully accomplished in cooperation with Videotrend S.r.l., which is Dahua's local distributor.

**Conclusion**

Pasquale Totaro, President of Videotrend S.r.l. said that Duomo di Monreale Cathedral is not only a landmark but also a spiritual symbol in Sicily. Given its historical value, they approached the planning and installation very cautiously. The cathedral is now secured with modern technology without any damages done to its original architecture.

For more information, please visit: [www.dahuasecurity.com](http://www.dahuasecurity.com) **ESST**



*Image courtesy of MaltaSicily*

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# Upscale Rolex Boutique Guards Luxury Assets And Ensures Customers' Safety

## Background

Located on Shaul HaMelech Boulevard, one of the largest cultural hubs in Tel Aviv, the Rolex flagship boutique caters to some of the city's most fashionable and affluent clientele. Founded in 1905, Rolex has since blossomed into the world's largest luxury watch brand. Euro-Asia, a European-based official dealer for several high-end watch brands including Rolex, Tudor, Certina, Bering, Michel Herbelin and Redlion Jewellery, owns and runs the Rolex boutique in Tel Aviv.

## The challenge

The main purpose of the upgrade is to protect high-end watch and jewellery store from internal and external retail theft, while implementing a sophisticated surveillance system that is user-friendly and will not disrupt the store's

networks. In the past, they relied on analogue-based video surveillance systems in their retail outlets. However, when they opened the Rolex boutique in 2012, the owners knew that they needed an upgrade to their security systems in order to get the high-level of protection that an upscale watch and jewellery store required. Their old cameras were very difficult to use and they could hardly identify anything with them, said Noam Burstein, CEO of Euro-Asia. Under the recommendation of Polar Electronic Systems, an Israeli-based security and surveillance products distributor, Burstein decided to pick Avigilon for its ease-of-use, efficient storage and immediate and accurate search capabilities.

## Benefits

The Avigilon HD surveillance system allows the Rolex boutique to efficiently and effectively monitor inventory



and defend against customer and employee theft. On the operations end, the switch from an analogue to an IP-based security system has been a smooth transition for the store's security personnel. With high-resolution footage, an easy-to-use video management system and timesaving search functions, managers at the Rolex boutique and Euro-Asia have been able to resolve incidents with indisputable evidence in a fraction of the time it took them with previous systems. The store has also been able to leverage on the HD video surveillance to improve operational efficiencies and properly evaluate customer service standards. Security personnel at the Rolex boutique manage live and recorded footage from a workstation inside the shop and a separate workstation inside Euro-Asia's main offices.

### Protecting customers, employees and expensive merchandise

Like most luxury stores that carry premium merchandise, protecting inventory and the safety of customers and employees is a top priority. In early 2014, a masked robber armed with a gun entered the front doors of the Rolex boutique and instructed employees to open locked jewellery displays containing expensive watches and transfer the jewellery into designated bags. However, the Avigilon 2 MP H.264 Dome cameras installed in the boutique were able to clearly capture the robbery in real time. Midway through the robbery, one of the store's employees pressed a panic button, alerting officials at the Euro-Asia head office. As soon as the officials received the notification, they were able to pull up the feed using the ACC web client and immediately alerted the police. The Avigilon system helped them to quickly assess the situation and notify the authorities. Within minutes, the police arrived and arrested the robber and his accomplice. The quick response of the Euro-Asia officials and police ultimately helped keep the Rolex employees and store merchandises safe.

### Strong image quality and network management

While evaluating different security system providers, one of the first features that stood out to Burstein was the unparalleled image detail provided by the Avigilon solution. The HD capabilities of the Avigilon system have helped to create a safe environment for customers and employees and have been used as a proactive tool in accounting for expensive merchandise. They wanted to

have a system that provided high-resolution images so that they would be able to locate items misplaced by customers and employees. In addition, the Avigilon system has had minimal impact on the store's network since deployed.

### Convenient and user-friendly

To secure all of its assets, Euro-Asia deployed the Avigilon system in its head office and its multiple stores across the country. With the system operators in each location, choosing a system that was user-friendly and convenient was crucial. They do not have a full-time guard there, so their managers and non-technical staff needs to be able to operate the system. The ACC software has enabled users to efficiently monitor live and recorded footage, significantly reducing search times.

### Lowering insurance costs

Having a modern, aesthetically pleasing exterior is important for high-end stores located in a trendy neighbourhood. Their insurance company demanded that they installed cameras and bars in windows in all their branches. However, bars in windows were out of the question because Rolex would not approve of the disfigurement of the shop. The quality of Avigilon's HD cameras and the addition of the security smoke enabled them to compromise with the insurance company and avoid barring their windows. The result was a welcoming and comfortable shopping environment that is attractive to clientele.

### Conclusion

With the success of the Rolex flagship boutique installation, Euro-Asia has implemented the Avigilon solution in four other shops in different cities in Israel and its headquarters in Tel Aviv. In addition, with Avigilon, the company was able to meet other business-related requirements.

For more information, please visit: [www.avigilon.com](http://www.avigilon.com) **SST**



# King Abdulaziz International Airport Elevates Security At Highly Accessible Areas

## Background

King Abdulaziz International Airport (KAIA) is Saudi Arabia's third largest airport and occupies an area of 105 square kilometres. Due to its proximity to the cities of Mecca and Medina, the airport is the main gateway to Saudi Arabia for a large number of visitors from around the world. In 2010 alone, KAIA serviced more than 17 million passengers. Over the past several years, the airport has undergone a series of renovation to enhance passenger service and ensure their safety. Most recently, KAIA deployed the Avigilon high-definition (HD) surveillance system in its 13 parking lots and all duty free shops and restaurants to effectively and efficiently cater to

travellers' safety and security whilst protecting airport assets.

## The Challenge

With a space that is busy and bustling like the KAIA, there was a need to deploy high-performance, reliable and easy-to-use HD surveillance solution in its parking lots, terminal lobbies, retail shops, duty-free areas and restaurants for greater security and more efficient management.

## Avigilon for quick resolution

Tasked with selecting a new surveillance system for the airport's parking lots, terminal lobbies and duty free shops, Al Musbah, a local

provider of security solutions had one goal in mind and that is to get a high-performance, reliable and easy-to-use solution to capture irrefutable evidence for quick and successful investigation. The ability to take quick action when an incident occurs — whether it's an accident or theft — is a critical factor in reducing disturbances and maintaining high customer service levels.

A total of 274 Avigilon HD cameras ranging from 1 MP to 16 MP to provide complete coverage of the airport's highly accessible spaces. 11 Avigilon HD 16 MP cameras, 3 Avigilon HD 11 MP, 29 Avigilon HD 5 MP, 43 Avigilon HD 2 MP, and 31 Avigilon HD 1 MP cameras to monitor the 2,000 vehicles that enter



and exit the parking lots daily. In the airport's lobbies and all market shops area, 24 Avigilon HD 5 MP cameras, 44 Avigilon HD 2 MP cameras, and 87 Avigilon HD 1 MP cameras deliver complete coverage. All Avigilon HD cameras are streamed and monitored around the clock in the airport's state-of-the-art control room. Security personnel manage the Avigilon high-definition surveillance system using Avigilon Control Center Enterprise network video management software (NVMS) with HD Stream Management™ (HDSM) to manage HD surveillance video.

### **Quality advantage**

The primary goal of the new surveillance system is to capture clear, irrefutable evidence for the prompt resolution of incidents and issues in the airport's strategic areas like parking lots and all internal market areas. Adel Safadi, the manager of CCTV and Video Analytics Systems at Al Musbah explained that they feel a sense of responsibility to provide the most accurate evidence possible to local law enforcement to assist in their investigations. This system is also to ensure that the airport director can provide higher efficiencies for KAIA management, as well as airport police, who now have another connection to secure passengers and identify suspicious objects or banned vehicles.

Since HD video delivers far greater detail, security personnel can make rapid and accurate decisions. With the Avigilon HD surveillance system in place in the parking lots, security personnel can read license plates and capture facial details any time of the day or night, no matter how congested an area. Delivering such high quality images, the Avigilon HD surveillance system has also proven useful as a management tool in the duty free shops, where it is used not only for customer protection and crime prevention, but also as a tool to monitor inventory levels and ensure best practices.

### **High quality, low bandwidth**

While very impressed with Avigilon's image quality the airport's initial concern was that the bandwidth requirements would be too high. Al Musbah wanted to ensure that the system installed could efficiently manage the transmission and display of HD video, so the benefit of the additional detail would not be lost. Using HDSM, the Avigilon high-definition surveillance system only sends the requested pixels, so the workstation does not become overwhelmed with processing unnecessary data. Security officers are able to navigate through 274 cameras on very little bandwidth. The use of JPEG2000 compression gave them the ability to view multiple cameras on very little processing

power at the viewing station, while still maintaining unbeatable image quality.

### **The power of Avigilon Control Centre**

With the Avigilon Control Centre software, security staff can view live footage and playback video at the same time, while managing multiple megapixel cameras seamlessly in fast forward and review mode. The ability to zoom into points of interest while maintaining a full live view of the overall scene has also proven to be a great advantage. Airport security personnel have improved the success of their investigations since installing the Avigilon high-definition surveillance system. In one case, Safadi was able to easily and quickly retrieve multiple clips from a range of cameras to provide local police with a video of an alleged thief as he entered the airport, committed the theft, and left.

### **Conclusion**

Al Musbah selected the Avigilon HD surveillance system to monitor places where there is most likely a crowd can gather and crimes are easily committed. With its ability to capture, review and store high quality footage to facilitate investigations, they were convinced of the system's performance, ease of usage and reliability, the airport is hoping to expand with Avigilon HD surveillance systems to cover key areas. It has also proven to be a very cost-effective way to secure the big space. Since deploying Avigilon's security solutions, they were able to reduce the number of cameras required from 2,300 analog-based cameras to just 274 Avigilon HD cameras, saving cost in installation and labour manpower.

For more information, please visit: [www.avigilon.com](http://www.avigilon.com) **SST**

العربي سنتر  
ARABIAN CENTER



Image courtesy of Al Naboodah

# Dahua Megapixel IP Solution Secures Arabian Centre In Dubai

## Background

The Arabian Centre, located in South-Eastern Dubai, is a shopping and entertainment destination for local residents. Sprawling over a total area of 80,000 square metres, the Arabian Centre is home to over 200 different renowned retail stores, ranging from fashion lines to home furnishings, electronics and more. In more ways than one, the security of the shopping centre is given a high priority by its board of directors. The main intention lies upon wanting to provide store owners a good business platform and to deliver a cosy and safe shopping experience to customers.

## Challenge

In the course of their journey into making the Arabian Centre a safeguarded environment, fighting against theft and tackling with emergencies in such a wide open space remains a complicated

puzzle to be solved. Different areas and spots of the centre has its own precise requirements, for example, the condition in the warehouses, entrances and exits are in no way the same as other areas in the mall.

The shopping mall's board of directors had basic requests for this particular project: images had to be crisp and clear, cameras need to be in-décor and the whole security solution system needed to be a very stable and reliable one.

## Solution

Dahua's Megapixel IP solution stands out amongst other brands and offers a complete video solution including megapixel network cameras, storage devices and central management system. 342 units of Dahua 2-Megapixel Eco-Savvy network cameras were deployed, different models that call for different occasions.

Dahua's network Wide Dynamic Range (WDR) functions using in-house algorithm to show better image performance, tailor-fitted for the weather in Dubai. The strong sunlight glares through all-year-round, making WDR a must for the camera installation at entrances and exits of the mall. Warehouse monitoring through low light cameras is essential as stock-taking is one of the key parts logistically, where thousands of goods are unloaded and tiled up in dim surroundings due to strict environment requirements. Meanwhile, efficient 3-Megapixel PTZ domes are adopted for a wider view of a broader surveillance area.

When it comes to storage, 22 units of 32-channel network video recorders are installed with 2TB Seagate hard disks provided to guarantee large volumes of storage. The entire system comes together and runs on Dahua's Smart Pass (CMS software) to have a central control and management.

## Conclusion

After a series of tests and trial runs for Dahua's NVR, the board of directors of the Arabian Centre decided that they were satisfied with results that Dahua's security solutions could deliver. To add on, Dahua's products can perform well under different circumstances and are priced very affordably.

This marks Dahua Technology's very beginning in penetrating through the Saudi Arabian market. With the success of Dahua's security solutions that was deployed for the Arabian Centre, there are many more opportunities for Dahua Technology in Dubai that demands great security, such as retail, transportation and entertainment.

For more information, please visit: [www.dahuasecurity.com](http://www.dahuasecurity.com) **SST**

# AN INTERVIEW WITH

**MR HARY PERMADI KARTONO,**  
DIRECTOR OF SALES, SOUTH ASEAN,  
IDENTITY AND ACCESS MANAGEMENT (IAM), HID GLOBAL



## What are the current technological trends in the security industry today?

At present moment, more and more people are starting to use mobile phones and new technologies like wearable devices therefore in the security industry, we are trying to incorporate products and solutions to suit the needs of the changing trends to make it more convenient for our customers.

However, at HID Global, we still maintain the same security standards. We are in the midst of our launching our product, which is the Mobile Access. The system works in such a way whereby we integrate secure identity such as Bluetooth or Near Field Communication (NFC) inside of one's mobile phone and it can be used to access the door. NFC nowadays can often be found in latest Android devices. We have been developing on that to tap on the security industry, making the operating software usable even for tasks like opening doors to certain areas securely. This product can also be used for payments.

We intend to develop something that can be used for security purposes as well as for convenience sake. The whole idea is aimed at the concept of multi-functionality. For example, we have a card, which is used to enter the office, to log onto the computer and to access one's tablets. So it is basically one card that can be used to secure identity functions for all sorts of medium platforms.

In today's world, identity is very important, not just the physical one but also the digital one because it is in the process of growing more and more by the day. Therefore we would want to make sure that the identity security is valid and is unable to be forged.

HID Global is working towards this direction. We are developing on solutions to enable consumers to use just their hand-held or wearable devices to access into specific areas like a private room or even organisational operating platforms.

## What are the potential threats with the evolving technologies for the security world?

The challenge is to provide solutions that are convenient as well as securely safe. At HID Global, we constantly upgrade our systems, security solutions and technology to ensure that the threat to being hacked is lessened or minimalised at every stage of research, development and implementation of our products.



and solutions. This is also one way to keep up with the industry standards.

Before the launching of new products, we will have our phase of testing and experimentation to find if there are any sorts of loopholes.

Apart from that, during the installation, if HID Global receives any constructive reports from the end-users or our partners, we take it very seriously and will immediately take necessary actions to close any gaps. However, fortunately thus far, HID Global has not experienced that. Every product we send out is trialled, tested and proven.

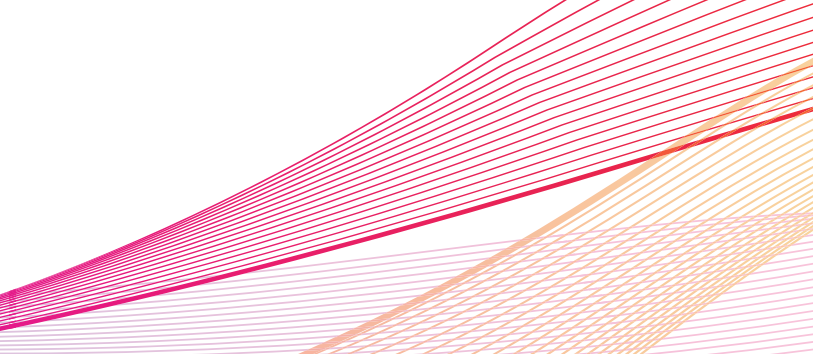
**There is a wide selection of solution providers in the security industry. What is the best guidance you can give to a consumer, that intends on selecting security solutions?**

It high depends on what the customer need the security solution for because everything out there will serve its purpose in one way or another. Having said so, security today is placed on such high emphasis that what I would personally tell them is to find a security solution best fitted for its purpose and not just consider the cost-saving ones only.

For example, if a bank needing a certain kind of security to ensure there will be consequence of people forging the card or faking their identities to enter into their system. Furthermore, we do not want the identity cards to be risk of being stolen. Therefore, every security alters to what one needs and at HID Global, we make sure that we can fulfil all of it.

**In what other areas of these newly developed products and solutions do you see potential growth?**

All our products right now are in the current state of growing very strongly because what HID Global offers especially in the ASEAN region, is suitable in catering to the needs of our customers. We have products for advanced countries, for example Singapore needs higher security and that is what we give them. For those countries still in the stage of growth, we also have security solutions meant to meet their current criteria but also equipped with the ability to be upgraded for future technologies and changing trends.



### **How does HID Global remain relevant in the market despite of stiff competition?**

We persistently innovate towards better and improved security solutions. HID Global works closely with our reliable technological partners for issues pertaining to access control, through which they make use of cards and readers as part of their security technology.

HID Global plays a huge part in ensuring these keys are non-forgable and no one can fake it. Our main concern starts from step one of the whole process, as it is the most essential step to establish a smooth security solution implementation.

### **How does HID produce a security solution or product based on your targeted demographics/audience?**

When HID Global develops a product, we look it from both perspectives. Besides being innovative, we also take into see what the market needs most. We incorporate all these study, research and observation into developing a product.

One main principle that HID Global holds is that, we do not sacrifice price for quality. In my opinion, the quality of the products is the most vital. We will not conform or compromise to less than what is expected of us.

### **Having been in the industry for so long, what do you think are the deeply held fundamental beliefs that will lead customers/prospects to use your products and solutions?**

HID Global has a tagline, which says, "We secure the most important thing for you" and the most important thing is your credentials. We provide you the most comprehensive solution in securing your identity and this encompasses the card, what information is stored inside the card, what is being printed on the card, how to use it, how to manage it and how to verify that you are the genuine owner of the card.

When we provide our customers solutions, it is fitted for all the issues and challenges they are facing currently. We believe in providing the best to our customers and catering to their needs. This has been our utmost value and will continue to be so.

For more information, please visit: [www.hidglobal.com](http://www.hidglobal.com) *SS*





Adapted from an article  
by John Suffolk  
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# The Different Inclines To Consider When Designing A Strong Cyber Security Program

## Introduction

It is a rather well known fact that in many countries the legal and industry requirements relating to cyber security are increasing. Indeed it is not uncommon to see governments and regulators beginning to pass the accountability, and subsequent liability for failure of cyber security onto national critical infrastructure providers and computer or IT service providers. In a globally intertwined world, threat can and does come from everywhere.

It is highly likely that the government or regulator will question the service provider on their approach to cyber security. More and more companies will be forced to detail the approach they take to cyber security and what analysis and assessment they undertook on their technology vendors and service providers. This is magnified by the fact that cyber security, in its broadest definition is complex – from law manufacturing, from service to human resources, from governance to research and development – few people in the world have such breadth and depth and very few people, therefore knows what questions to ask and what evidence to look out for.

## Strategy, governance and control

If the Board of Directors and senior officials of an organisation do not see cyber security as a priority, it will often lead to their staffs not seeing it as priority as well. Ensuring that cyber security is embedded into the organisational design, governance and internal control framework is the starting point for the design, development and delivery of good cyber security.

It is important to take note whether or not the vendor being engaged has formal strategy and approach to risk management, information and cyber security risk. If there are no concrete strategies, chances are, it is unlikely that investment or resources will be allocated and can lead to random results and a lack of consistency and repeatability of quality and security. Organisations should understand the cyber security risk to organisational operations because if it is just a strategy but without effective approaches, then it will simply be empty promises.

A dedicated committee led by a senior board member will show that cyber security is a company's priority and not just a tactical activity delegated to the technical staffs. Key board members are the only ones who can effect substantial change

and it shows top-level commitment. If board members are briefed and they carry out reviews when things go wrong, and they are involved in crisis management, it portrays that they are close to the operational reality. Should a senior management clearly express their expectations in terms of strategic objectives and priorities, available resources, and overall risk tolerance, and assigns responsibilities in achieving results, that will ensure that everyone understands the importance of cyber security.

Cyber security is everyone's challenge and everyone must be part of the solution. The ability to demonstrate this "all-of-company" approach to deciding what happens.

### Standards and processes

To get a repeated quality product demands repeatable quality processes, standards and a similar approach by your vendors, employees and suppliers. Cyber security is the same: if their processes or approach to cyber security is random then the quality, safety and security of the end product will also be random.

If the culture of the business is to adopt international standards whenever possible and to be open to integrating best practices into business processes, it is likely to be in harmony with the latest trends on cyber security. A company that is part of the community supporting the development and adoption of cyber security standards demonstrates that the company is open to adopting the best practices and standards. They must also be able to exhibit a comprehensive approach to scanning the world for best practices, standards and codes and distilling this into a set of company's policies, procedures and baselines.

This list of requirements need to be extended to specify a range of both management or process standards such as ISO 27 000 series and a range of technical standards for your industry such as PCI and OWASP. Vendors must be

able to accommodate existing standards and is prepared to modify their technology as standards are revised and new standards are developed. To really apply the broadest set of views, standards and ideas means that a company must continually assess how others are addressing the challenge and build new improved thoughts and requirements into their operations.

### Human resources

Many companies say that their people are their most important assets, which is true. However, from a security perspective, they can also be a challenge. The way people are employed, trained and motivated and the way their performance is managed often determines the difference between success and failure.

Therefore, awareness education must be seen as a matter of importance to the management team – including the middle management – otherwise employees will follow suit. For that reason, the management should attach the impact and "walk the talk" by participating in awareness training for all employees.

It is a standard "must" to ensure that the critical positions that offer services to customers are trusted and provided with essential protective measures. For example, the positions that have direct access to your core ICT and can directly change product software which can bring more serious threats to products and services. A vendor needs to show how they make their employees aware of varying national laws and internationally accepted best practices in terms of actions to prevent a bribery or corruption.

Often a company's employees will see things that managers do not. The establishment of corresponding notification mechanisms can enable the company to find a problem at an early stage and make improvements. A self-learning closed-loop improvement system needs to show how the

company deals with things that just do not fit their processes and employees often need to use such mechanism(s) to flag things that they do not think are right.

Furthermore, there is a great amount of emphasis for managers to have a role in the performance and conduct of their team. They should not blame someone else for their team's actions. They are obligated to ensure accountability and proportionality in incentives and disciplinary approaches for individuals, managers and teams.

### **Verification: Assume nothing, believe no one and check everything**

Whilst a robust Research & Development (R&D) process is fundamental to delivering quality, safe and secure products, R&D can be under pressure to launch new products quickly without the right testing and verification. Having a multi-layered – “many hands” and “many eyes” – approach to independent verification reduces the risk of unsafe products being distributed. An end-to-end checks and balances process ensures a “no shortcuts” approach and protects customer's investments and services.

R&D teams have their own objectives. They should strike a balance between progress, costs and security. A department independent from R&D teams can focus on the achievement of security objectives. From a quality and integrity perspective, there should be people who are not directly involve with the project to ensure that products conform to all quality and security requirements. These people should not be influenced by any other part of the organisation and should have the right veto power.

The main objective of such departments is so that they can focus on all things security therefore asking the vendor to show the breadth and depth of any such team should give one the comfort in the robustness of security

approach. Quality and security are not about a single test. Technology, threats and the use of products change. Laboratories and third parties must have the ability to retest products and to retest changes to products after other fixes have been made.

A vendor's internal, external and customer testing may find systemic issues in addition to specific product issues. If a vendor uses holistic, integrated approaches, they should be able to demonstrate how they take on-board this knowledge and address the underlying issues.

### **Manufacturing**

Product manufacturers must source components from a range of suppliers and they must ensure that no security risk has been introduced throughout every stage of the production process. Manufacturing centres have many complex processes and tasks. They are widely covered by many standards from quality to environmental. A vendor should be able to demonstrate how it takes a holistic approach to a manufacturing process that adopts the best international standards and approaches.

There are many opportunities within a manufacturing process for components to be tainted or corrupted either before a part reaches a vendor's manufacturing centre or after a product has been built and is dispatched to the customer. A vendor needs to be able to detail how it handles spare parts and returns in any location in the world. A key thing to consider is storage media, which might contain personal data from a customer.

The insider threat issue is real. Just as a vendor needs to validate and ensure the integrity of incoming materials, they must also be able to demonstrate processes and controls that ensure that goods leaving the manufacturing centre have not been tampered with by their own staff.

The next thing that a vendor needs to consider is the possibility that a product that left its factory in a safe and secure condition might be tampered with before it gets to the customer. Comprehensive processes surrounding logistics should be evaluated and considered in the selection of logistics companies. Given that vulnerabilities can be found at any time, over-supplying can mean that you have components that contain vulnerabilities in stores – just-in-time manufacturing reduces this risk. For this to be effective, comprehensive planning of sales forecasts should be automatically linked to manufacturing.

### **Delivering services securely**

There is not much point in focusing on designing your products with security in mind if, when you come to deploy them or support them, the process is not secure. Customers rightly want to ensure when equipment is supporting their business that its operation and maintenance are safe and secure.

As part of a vendor's policies and procedures they should be able to demonstrate what happens to these access credentials, how they are protected and when they are handed back, and that they are subjected to independent verification and audit. If employees' laptops are hacked, or otherwise are infected with malware, malicious actors can steal customer information or attack customers' networks through the employees' laptops. Therefore a vendor should detail the measures they take to protect and monitor the laptops of employees.

Often a customer's technology is complex, contains technology from many vendors and, on occasion, the integration of these components requires a specific set of software to work together effectively. A vendor should be able to demonstrate that any changes or upgrades they do

to your technology are in line with the approved software for you as a customer, including the correct version and release level.

### **Making the right choices**

There are probably a hundred different possibilities that get tied in when cyber security is discussed about. With so many options to solution providers today, there is a constant need to be kept updated with the latest evolving trends. This is only to avoid bigger issues later on, halfway through the process. Deploying cyber security measures for an organisation involves everyone as team to know exactly what are the preventive measures.

It is good to know how each stage of the process can affect you as an individual or as a whole team. Cyber security, if not prevented or not prevented efficiently can cause major harm to an organisation's asset and can sometimes results in great losses in monetary forms and more. The whole process is wrapped up in multiple factors that need to be performed properly before it can be called a successful cyber security prevention measure.

For more information, please visit: [www.huawei.com](http://www.huawei.com) **SST**

# Axis' Answer To More Video, Less Storage

## Introduction

Most networked video surveillance systems today are limited by the amount of video that can be stored for later use. Camera technologies such as sensors, optics and embedded image processing have evolved rapidly over the last 10 years, resulting in video with higher resolution, frame rate and dynamic range, capturing more details of a scene. The development has improved the quality of video evidence and forensic analysis such as face identification, but only when it is possible to retrieve the video from the right place, the right time and with the right quality. A high quality video source is of no value if storage was limited and the system was configured to remove valuable information before it was needed.

There various methods to limit storage needs by reducing the video bit rate, such as limiting the storage retention time, saving video in a lower resolution, reducing the frame rate and compressing video harder. In all these methods, information about something critical might be missing when really needed.

Optimised for video surveillance, Axis' Zipstream technology is a radically more efficient H.264 implementation, lowering bandwidth and storage requirements by an average of 50 per cent or more without costly and complicated integration. Axis' Zipstream technology adds a module inside the video compression engine of the network camera that ensures that important details in the image get enough attention in the video stream while unnecessary data can be removed.

## Background

Before video from surveillance cameras can be efficiently stored on any media it has to be processed to fit into the allowed space. To fit video with high resolution and full frame rate onto SD cards, which is the most popular and cost-efficient media for embedded applications, the original information has to be encoded. This is done using video compression algorithms that encode video data by reducing and removing redundant information.

### Video compression algorithms

Video compression algorithms are used to find regions in the video that already has been transferred and do not need to be sent again in the next image frame. Another task for the algorithm is to identify where in the video details can be removed without reducing the visual quality.

State-of-the-art video compression algorithms that function well together are grouped into an international standard, which is a video stream syntax created for storing, sharing and viewing video. Today, the most used video compression standard is called H.264, which is a method that is efficient enough to reduce several days of surveillance video onto one single SD card.

The algorithm used to compress video according to H.264 is not part of the standard, only the syntax and the method to perform playback is standardised. This enables improved H.264 encoding solutions to be created while keeping the file format for interoperability (video decoder compatibility).

Axis' Zipstream technology is a more effective implementation of an H.264 video encoder for surveillance applications. It includes various surveillance-unique methods that enable networked cameras to produce video with markedly lower bit rate.

## The Zipstream technology

Axis' Zipstream technology is a collection of algorithms in the camera that analyses the video stream in real-time. Interesting details and motion are preserved with the given video quality while the Axis-unique module can filter other areas harder to optimally use the available bandwidth. It is a video coder enhancement, which can be applied on many video compression standards with minor adaptations.

### Configuration options

Axis' Zipstream technology adapts the compressed video stream based on four factors:

- Scene motion
- Scene content
- Ambient light level
- Configuration options

Configuration options that affect Zipstream:

- Compression parameter
- Group of Pictures (GOP) length
- Frame rate
- Strength parameter
- Dynamic GOP parameter
- Dynamic GOP limitation parameter

The effort level for Zipstream is defined by the strength parameter, as follows:

Strength parameter	Effort level	Explanation
Off	-	Zipstream disabled
10	Low	No visible quality degradation in most scenes
20	Medium	Limited visible quality degradation in areas without any priority in some scenes
30	High	Visible quality degradation in areas without any priority in many scenes

All strength parameter settings are compatible with all existing applications, while still reducing the bit rate.

Dynamic GOP parameter:

Dynamic GOP parameter	Explanation
Off	Dynamic GOP adjustments, disabled
On	Dynamic GOP adjustments, enabled

Dynamic GOP limitation parameter:

Dynamic GOP limitation parameter	Explanation
Actual value	Maximum allowed dynamic GOP length

By default, networked cameras supporting Axis' Zipstream technology is configured with the strength parameter set to 10 and dynamic GOP disabled. The default setting is compatible with all existing applications, while still reducing the bit rate.

### Bit rate reduction

The bit rate reduction can be derived from either the dynamic Region of Interest (ROI) of Zipstream or its dynamic GOP.

### Dynamic ROI

The dynamic ROI optimises bandwidth in real-time by analysing where available bits will give the maximum benefit from a forensic perspective. This process is performed for all image content, resulting in a totally flexible dynamic ROI. This dynamic ROI automatically expand, shrink, change shape, split, merge, disappear and reappear depending on content, for the benefit of tuning the instant bandwidth.

Since it is unknown in which parts of the image that is relevant information may appear, Zipstream prepares the system for unexpected events. This dynamic automatic ROI is much more convenient than other traditional ROI implementations where the region is set manually.

### Dynamic GOP

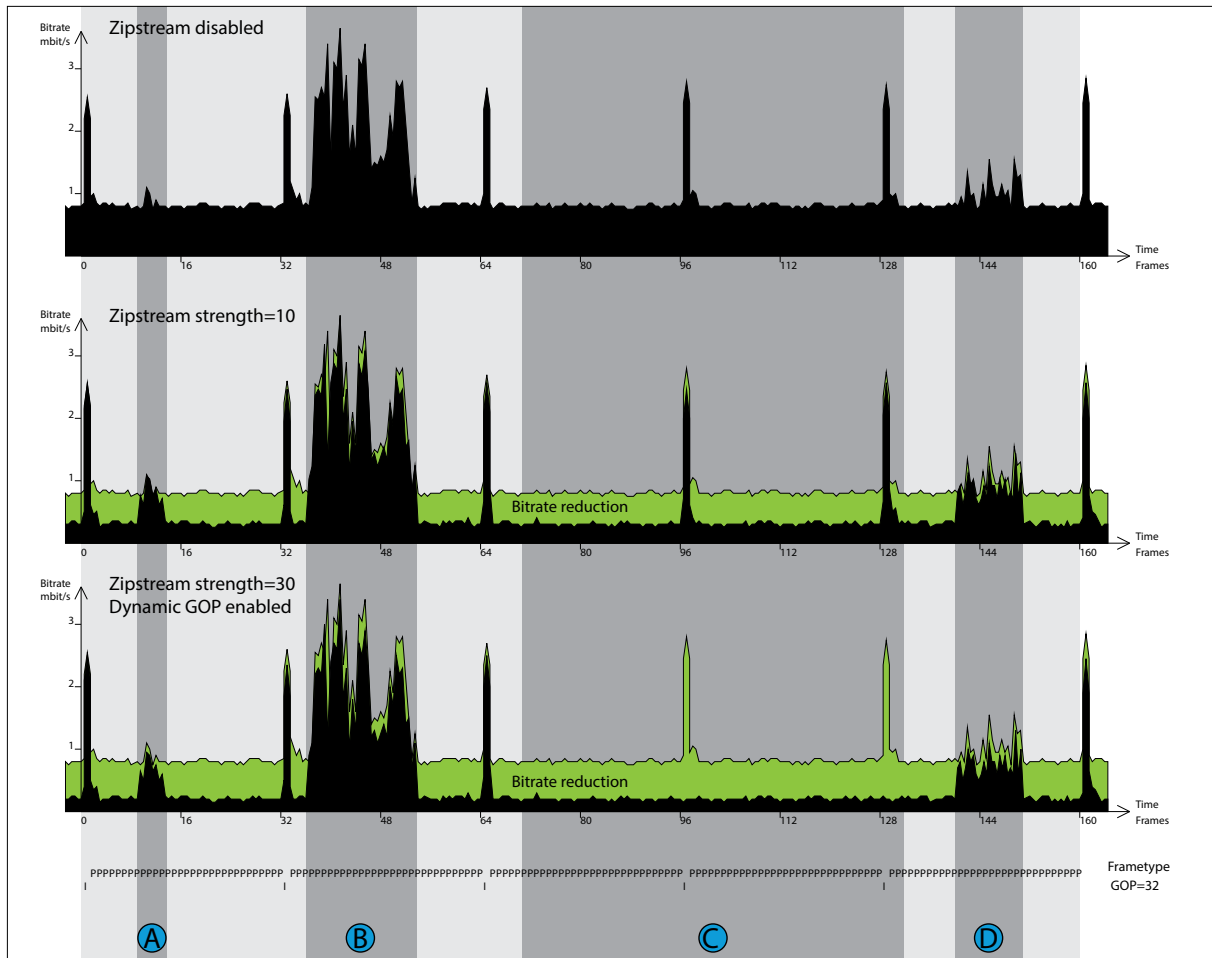
The dynamic GOP reduces the bit rate by avoiding storage consuming I-frame updates. Typical surveillance scenes with limited motion can be compressed to an extremely small size without any loss of detail. This algorithm makes a real-time adaption of the GOP length on the compressed video according to the amount of motion. All clients or Video Management System (VMS) solutions may not support smooth playback of video with this algorithm enabled even though the compressed video stream conforms to the H.264 standard.

### Expected reduction rates

Axis' Zipstream technology reduces the average bit rate by using real-time scene information. One method to estimate total savings is to look at the bit rate savings from each method independently and multiply the reduction factors.

Zipstream method	Bit-rate reduction	Influenced by
Dynamic ROI	10 – 50 per cent	Zipstream strength parameter, scene motion and content
Dynamic GOP	0 – 50 per cent	Scene motion

The example in Figure 1 plots the instant bit rate from a video with four different motion scenarios A, B, C and D, with two different Zipstream configurations compared to when Zipstream is disabled. All streams are Variable Bit Rate (VBR) streams with GOP length=32. Each I-frame update is clearly visible as bit rate spikes and the instant bit rate can be read on the vertical axes.



**Figure 1: Illustration of instant bit rate in four different scenarios.**

This example has been created to highlight the behaviour of Axis’s Zipstream technology under different conditions:

- A. Time period with short small motion. The small motion is detected, and adding bits in that region can preserve the moving part of the video.
- B. Period with large longer motion needs more space but still it is possible to save storage during this motion, since the dynamic region detects areas where non-prioritized information can be removed.
- C. Periods without motion are detected and the dynamic GOP algorithm removes unnecessary I-frame updates.
- D. Period with small longer motion.

**Parameter settings**

The original compression parameter is still used when Axis’ Zipstream technology is enabled. This parameter controls the amount of compression applied to important forensic details. Compression is usually set to 30 and this value is recommended also when Zipstream is enabled.

The bit rate controller built into the encoder can be combined with Zipstream to enforce a Maximum Bit Rate (MBR) limit. MBR is a VBR configuration with includes an upper limit to protect the system from temporary bandwidth spikes. However, the MBR limit must be sufficient to capture the details of moving objects in the scene to enable the full potential of Axis’ Zipstream technology and VBR.

# SECURITY FEATURE




## AXIS' ANSWER TO MORE VIDEO, LESS STORAGE

To limit the bit rate increased storage time, cloud-connected cameras or cameras using edge storage should be configured with the strength parameter set to 30 and dynamic GOP enabled. This setting is suitable to combine with motion detection triggering and/or MBR systems where the bit rate is allowed to adapt to changes in complexity. Edge storage is a development in Axis network cameras and video encoders that enables video recording directly to an on-board SD card or a Network-attached Storage device (NAS).

The dynamic GOP algorithm of Zipstream can be used to compress low motion sequences. When using dynamic GOP, the GOP length will vary, which might pose a problem for some VMS and other types of client software. To improve support in existing software solutions that do not optimally implement playback of H.264 video with dynamic GOP, either a shorter maximum GOP length could be selected or dynamic GOP could be disabled.

### Comparison measurements

Figure 2 show examples of surveillance scenes where Axis Zipstream technology can reduce storage needs. The table shows the Zipstream strength value and whether dynamic GOP was enabled, as all as the total bit rate reduction.

	<b>Retail:</b> Well-lit indoor detailed scene, sparse medium-sized movements		
Zipstream strength:  <b>10</b>	Dynamic GOP:  <b>Off</b>	Total bit rate reduction:  <b>25%</b>	
	<b>City surveillance:</b> Daytime overview, many small car movements most of the time.		
Zipstream strength:  <b>30</b>	Dynamic GOP:  <b>On</b>	Total bit rate reduction:  <b>50%</b>	
	<b>Constant recording:</b> Overnight very noisy scene with sparse small and fast car movements.		
Zipstream strength:  <b>30</b>	Dynamic GOP:  <b>On</b>	Total bit rate reduction:  <b>90%</b>	

**Figure 2: Examples of surveillance scenes where Zipstream can reduce storage needs**

## Application areas

In professional VMS systems, bit rate reduction is desirable while the image quality must be kept for operations on critical sites around the world. These systems must detect even the smallest threat, and enable advanced forensic work after any incident. Axis' Zipstream technology enables high security systems to use continuous recordings due to the low bit rate used for static scenes.

When using AXIS Camera Companion (ACC) an even lower bit rate is desired, since system cost and easy installation is a priority. The aim is to store video of sufficient quality on cost-efficient edge storage. However, video quality should be decreased in a controlled manner, in order to easily find and understand the course of events. Zipstream reduces the amount of missed triggers by allowing longer recording segments for each motion-triggered event without generating excessive data.

Axis' Zipstream technology is relevant for all users that wish to reduce the cost of storage, but the primary application is in small systems using edge storage. Any business with a need for small, stand-alone, easy-to-use video surveillance, such as startup companies or smaller businesses, will benefit from using Zipstream.

## Forensic Details

Axis recommends using networked video with VBR where quality is adaptive to scene content in real-time. Using Constant Bit Rate (CBR) as a storage reduction strategy is not recommended, since cameras delivering CBR video may have to discard important forensic details in critical situations due to the bit rate limit.

Axis' Zipstream technology makes it possible for the system installer to continue using VBR for optimum video quality while reducing the storage requirements. This way the surveillance system can keep delivering high quality video. Important forensic details such as faces, tattoos and clothing patterns are isolated and preserved, while irrelevant parts such as white walls, lawns and vegetation are smoothed out.

If a storage solution or the network requires an absolute upper bandwidth limit, Zipstream is compatible with MBR, a method, which protects the system from temporary bandwidth spikes.

## Conclusion

Optimised for video surveillance, Axis' Zipstream technology is a radically more efficient H.264 implementation, lowering bandwidth and storage requirements by an average 50% or more for many common 24/7 surveillance use cases.

Axis' Zipstream technology makes it possible to use higher resolution and increase forensic detail, while reducing storage cost and enabling longer recordings. It enables high bit rate in scenes with especially interesting events in combination with low bit rate when a scene is relatively static.

Zipstream will initially be available for H.264 based products but there is nothing in the technology that prevent the solution to be migrated to H.265 encoders when that is technically possible.

For more information, please visit: [www.axis.com](http://www.axis.com) **SST**

# AN INTERVIEW WITH

MR MARK GENTLE, VICE PRESIDENT OF MERCHANDISE AVAILABILITY SOLUTIONS, APAC

**Checkpoint prides itself as a global leader in merchandise availability solutions for the retail industry, which includes loss prevention and merchandise visibility. Can you elaborate how you manage to maintain a competitive advantage in developing such cutting-edge solutions?**

Our branding, products and solutions have a very strong footing across the Asia Pacific region. The main challenge has always been to continuously and consistently innovate, come up with new solutions for new challenges that the retailers face within Asia.

Maintaining our competitive advantage comes down to truly knowing our customers and their trending behaviours. Out of the 250 global retailers, Checkpoint Systems work with about 75% of them. This has allowed us a good opportunity to hear, observe and study what their issues, problems and challenges are. This then goes back to our end, having the space to think about how we can develop a suitable solution for the future and for them.

Here at Checkpoint Systems, we have been developing products or solutions for today but at the same time building that pipeline for the products and solutions of tomorrow. We have showcased products that have been designed for tomorrow but are also ready for today's retailers and those are unique to Checkpoint Systems.

**More retailers are deploying RFID (Radio Frequency Identification) technology in their stores in the Asia Pacific Region. However, some may not have an in-depth understanding about the technology. Can you tell us more about RFID's reliability, its effectiveness and efficiencies of this technology as well as the Return of Investment (ROI) that may interest retailers?**



There are two things concurrently happening in the retail industry. One is that technology is moving so quickly in the retail industry. However, looking from our customer's point-of-view, the public masses' expectations are always evolving as well.

When technology shifts alongside RFID, we now have the ability to track products from the point of manufacture right through to the whole retailers' supply chain and even when it leaves the store. Additionally, we can do that in an accurate manner, and it shows that we know exactly what inventory you have on shelf, knowing exactly what the working capital requirements need to be and when someone does something wrong, for example, taking a product without paying for it, our products are designed to send a message to your iPhones or Android phones, as soon as the person walks out the store, that the product has just left your store without being paid for.

This was made possible via our software platform called the OAT Foundation and is exclusive to Checkpoint systems. We started investing in this system 10 years ago, and it has taken us through different research and development stages to present a platform that can be incorporated straight into

your existing system. Additionally, we can also take into consideration of your printer and reader requirements, giving us a strong competitive edge in the market.

### **In your opinion, will barcode technology be phasing out and replaced by RFID technology? Can it be complementary with RFID technology?**

The barcode technology will be complementary with the RFID technology.

Similarly, about 25 years ago, when barcode technology entered the market, majority of the people were deducing that the hand-held labelling technology would be no longer remain significant. However, today, Checkpoint Systems Asia is still one of the largest providers of hand-held labelling products. The relevance of these products and solutions largely depends on where retailers, themselves, see the need for it to be deployed and employed.

It will be a merging technology with RFID because ultimately it will be an integration of the barcode technology with the Electronic Product Code (EPC) making it all come together. This will proceed to take place in the next 10 years or so, very much dependent on the vertical market for RFID.

### **What are the common problems/challenges when it comes to implementation of your technologies to the retailers in Asia, and your solutions to these problems?**

It is more about the business understanding side of things and educating people on what the technology can do, putting all these together and ensuring that people fully understand the benefits of that particular product or solution.

Currently, there are so many misunderstandings and misinterpretations already. There are a good portion number of people who do not comprehend the need for such technology, thinking that one small and cheaper step is sufficient enough. People often expect to be able to see a positive and huge difference when they are unwilling to invest good time and money to genuinely understand which technology can do what and how it can be an asset to them, now and the future.

What makes Checkpoint Systems different is that we do everything from manufacturing and more. Other solution providers can sometimes do only a small piece, which requires them to partner up with a lot of other organisations to complete the whole process, making it very cumbersome.

### **We have noted that you provide RFID solutions for categories under apparel, department stores, warehousing electronics, groceries, hardware and do-it-yourself (DIY), pharmacies and other speciality stores. Which category do you see potential growth in Asia and why is it so?**

Studying the market trends, we see the most potential growth in apparels and luxury. These two areas are where the bigger issues tend to surface. In the luxury retail, they have issues like counterfeiting and also demands. So, if you measure from a manufacturers' perspective, the benefits are massive. Likewise for the apparels retail, when a designer's dress comes out, you would want to make sure that the factory is not running a second shift and then putting them on the Internet to sell. You want to be able to control the whole way through.

However, as technology adoption gets stronger, it will then push its way into the food and beverage industry, and other vertical markets. Whereas for the United States region, the adoption rates for such products is far higher. Out of all the apparel retailers in the US, nearly 50% of them are doing something tied to RFID.

### **There are many solution providers for retailers in Asia. What is your advice for your prospective clients/retailers in selecting a suitable solution provider?**

Checkpoint Systems have been here, working with retailers for nearly 60 years. Our aim and hope is to remain as relevant as possible in the market for another 60 years to come. Our strength is in the solutions we provide to retailers. We give them the ability to grow with us, and giving them that forward future compatibility with technology.

For more information, please visit:  
[www.hk.checkpointsystems.com](http://www.hk.checkpointsystems.com) **ESST**

# Top 7 Considerations To Choose The Right RFID Tag

Article courtesy of HID Global

**W**ith thousands of RFID tag configurations to choose from, and new ones introduced almost daily, how do you sort through the sea of passive transponders to find cost effective tags that will deliver the most optimal performance for your application? Below are 7 things to consider when choosing the right RFID tag for any kind of task.

## **Operating frequency: LF, HF or UHF**

RFID stands for “Radio Frequency Identification.” Each RFID system operates within one of three bands on the electromagnetic spectrum: low frequency (LF), high frequency (HF), or ultrahigh frequency (UHF). Generally, as operating frequency increases, data processing speed increases, as does the read range – or the distance between the powered reader and the passive tag it reads. However, increasing frequency tends to decrease a radio wavelength’s ability to penetrate some materials.

- LF is a cost effective option for applications allowing consistent physical placement of tags on items, enabling readers to identify individual tags one at a time at close range. LF is almost not affected by the environment, for example, water or metal.

- HF tags can be read from distances of a few several inches, allowing greater flexibility for tag and reader placement, and enabling higher processing speed and accuracy. Moreover, HF processing enables larger memory capacity on each tag.
- UHF technology is rapidly expanding the boundaries of data collection speed and accuracy. Some UHF tags can be scanned from up to 25 feet (8 metres) or more, with readers identifying multiple tags simultaneously. Using UHF, hundreds of individually tagged containers can be accounted for in a few seconds. On the flipside, UHF is sensitive to the environment for issues like reflection, dampening or detuning, based on the surrounding materials.

If tags are to be used with an existing reader network, then select a tag whose operating frequency is compatible with your legacy system.

### **Environmental conditions**

While integrated chips are relatively delicate, they can be housed in materials to protect them under even the harshest of conditions.

In a stable environment, such as tagging books in a library, a relatively modest housing will provide adequate protection for each tag's electronic components.

At the other end of the spectrum, tags used in many industrial applications must perform despite repeated exposure to extreme heat or cold, physical impact, vibration, moisture and chemical agents.

Consider the conditions that tags will be exposed to when deployed in your application.



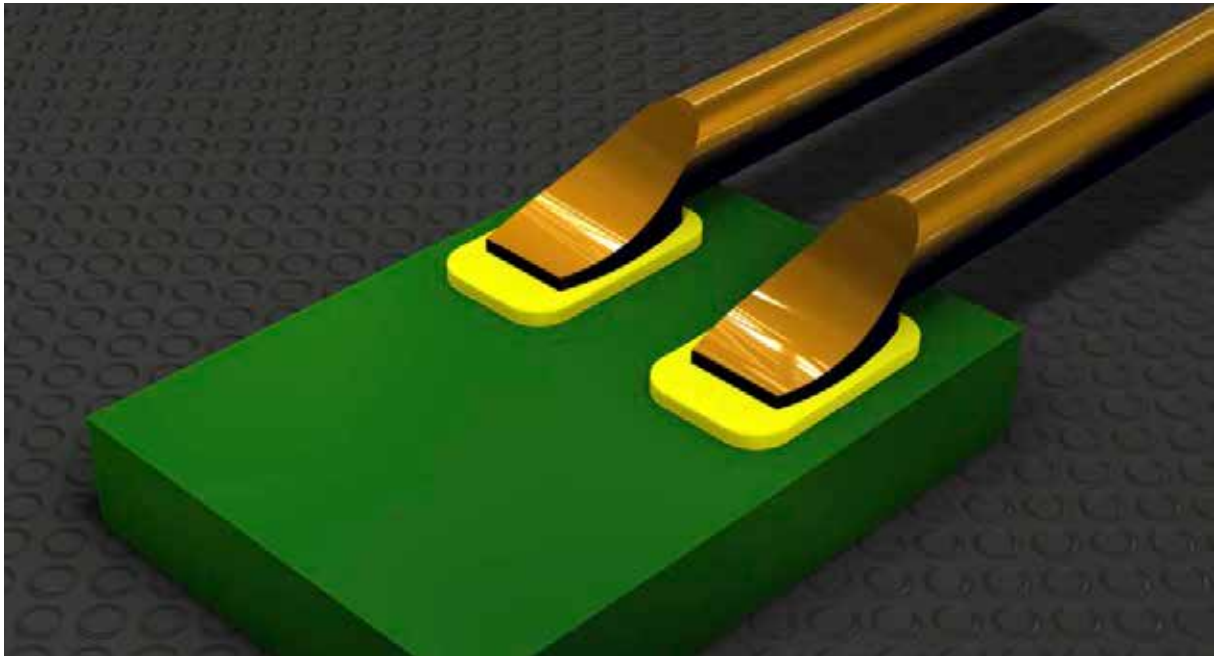
**During a 20 to 40 year keg life, this tag will withstand numerous high-pressure washes with high-heat sterilisation; plus repeated exposure to liquids, harsh chemicals, the rigors of distribution and collection and sub-freezing temperatures.**

### **Composition and contents of tagged items**

The RFID tags and readers may interact differently depending upon the surface material on which tags are mounted, including metal, glass, plastic or wood. Liquids may also impact readability, both as contents of a tagged container, and when liquids are present in close proximity to tags and readers. Ensure the tags you choose are tested to perform in your application.

### Physical space available for tag placement

Tags come in a multitude of sizes and shapes, from high-visibility units to be placed on the exterior of 45-foot cargo containers, to tiny tags that attach discreetly or are embedded into small objects. Knowing tag placement options and potential size limitations for each item to be tagged will help identify the tag size and shape that is right for your application.



**Direct bonding technology attaches chip antennas without the need for bulky housings, enabling production of smaller, thinner RFID tags**

### Optimal mounting method

The optimal mounting method will depend upon a combination of where a tag will be secured, the environmental conditions it will be exposed to, and the composition of the surface on which the tag will be placed. Options will include:

- Cable ties – attach easily and provide tamper evidence when used as closure for bags or containers
- Embedding – tags may be sealed within an item's material components or secured in a cavity



**This flexible tag mounts quickly and securely to pipes, posts or tubes with cable ties.**



**A pre-drilled hole accommodates fast, secure mounting with screws or nails.**

- Glues – a variety of industrial adhesives are available to bind virtually any materials and hold securely under a wide range of environmental conditions
- Screws, rivets or nails – many tags include pre-drilled holes to help make this method swift and secure
- Welding – some tags feature mounts, which can be securely welded to metal cylinders, containers, tools or machinery

### Memory capacity

Tags with large memory capacities enable more detailed records. Still, low memory tags are sufficient for some tasks when used with an online database that holds the additional data.

In its infancy, the industrial RFID tracking industry used relatively simple 8 bit and 16 bit, read-only, alphanumeric codes to distinguish between individually tagged items. Very little memory space is required to store these simple codes. For some applications, a 16-bit identifier may still be sufficient. UHF tags mostly use a standardised 96-bit EPC code, which is the electronic counterpart of an industrial barcode.

However, technological advancements are packing larger amounts of data in ever-shrinking integrated chips. Larger memory tags enable tracking systems to employ more secure coding and encryption techniques, to ensure greater data accuracy and veracity.

High memory tags – with up to 64 kilobytes or more and read-write capability – are redefining RFID potential. A single tag can securely store detailed maintenance records for a piece of industrial equipment or fleet vehicle. Complete records of production process steps stored in a high-memory tag can provide instant status information even in offline scenarios, when no real-time database is access is possible.

For many RFID users, increasing tag memory capacity has significantly expanded logistics tracking and reporting capabilities.

### Mix and match components for a custom solution

If the first six items above have not revealed the ideal tag for your requirements, explore the potential of a custom design. Leading manufacturers can customise a tag to fit your unique requirements for chip type, dimensions, programming and materials. Mixing and matching standard components to create a custom tag can be cost effective, while optimising the potential of your logistics application.

Customisation also offers the possibility to embed multiple technologies in a single RFID tag, providing paths that connect legacy systems with new initiatives.

For more information, please visit: [www.hidglobal.com](http://www.hidglobal.com) **SST**

# AN INTERVIEW WITH

**CLAUDE HOCHREUTINER,**  
SENIOR MANAGER, REGIONAL MARKETING



## The Bosch Emergency Evacuation Assistance Solution – Background

Picture a fire in a mall that can occur at any time. Such a space requires a systematic and safe way of evacuation that lessens the threat. Bosch's Emergency Evacuation Assistance solution leverages the Internet of Things and Building Integration System from Bosch. It analyses data collected in real time to arrive at the safest route to evacuate people during an emergency.

This solution operates on an integration of 3 different systems. For Emergency Evacuation Assistance to function efficiently, firstly edge devices; a CCTV camera that consists of an embedded video analytics and fire detection system has to identify that a fire has occurred.

Fire detected by the CCTV and fire detection system will then be transmitted through to the Bosch Building Integration Solution (BIS). BIS allows for integration of many different security and safety systems to facilitate and automate system operations. It also allows integration and configuration of systems exposing only one interface to third party systems being integrated with it.

The third and final stage is the Bosch IoT Suite, which is essentially the operational brain behind the solution. In a nutshell, the IoT Suite consolidates the crowd estimation information from the cameras and the fire alarms triggered from the system and proceeds to automatically calculate the best fire escape routes depending on the fire location and crowdedness level at the emergency exits. Existing monitors, LED panels and other indicators can then be used to direct the crowd to the best possible exit route.

The main aim of the solution is to direct the crowd to the best available exit. It goes beyond directing people to the nearest exit. It takes into account areas that might be too dangerous to access and directs people to the best emergency exits possible in an emergency.

**Define the targeted demographics for Bosch's Emergency Evacuation**

## Assistance solution.

The Emergency Evacuation Assistance solution is one customized for a fire in this case but with BIS and the Bosch IoT suite, the possibilities to create a solution to meet multiple needs are endless. In a shopping mall, for instance, Emergency Evacuation Assistance works as a solution for fast and safe evacuation during and emergency and can also be used to analyse visitor traffic for marketing purposes.

**As Bosch is well known in the industry for its innovative security solutions and products, what is the main benefit of the Emergency Evacuation Assistance?**

By integrating BIS and Bosch IoT Suite to our security products, smart solutions are developed. Bosch's Emergency Evacuation Assistance maximizes the safety of the building and all its patrons. It also creates new opportunities. Information or data that is provided by the system can also be valuable insights for businesses.

**With many of Bosch's products and solutions already launched in the market, what is the Unique Selling Point (USP) of the Emergency Evacuation System?**

It is a combination of 3 powerful system platforms that allows functionality not only in terms of safety and security. BIS provides a powerful yet simple and open access to security and safety systems. It uses open standards so the integration capabilities are almost limitless. The BIS can integrate itself with wide range of other systems, for example, Point of Sales, Hotel Management Systems and Building Management Systems.

**Having the BIS tested and proven in the market, what are the responses to the system?**

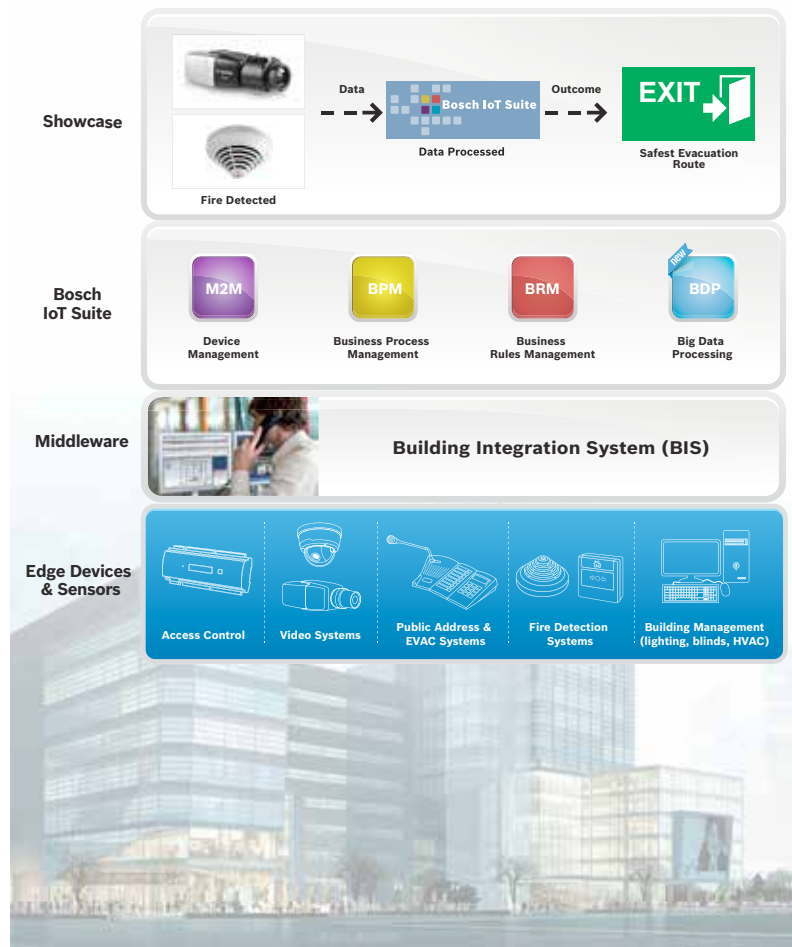
The BIS, along with its integration with other systems have been tried and tested extensively. Bosch has deployed more than 3000 BIS systems for a total of 5 million detector points managed by 10 000 operators globally. At present, the BIS has been successfully implemented in

the Monaco smart city project.

**What are the range of Bosch's products that comprises of intelligent video analytics?**

Bosch currently has 3 areas where intelligent video analytics can be found. The first is Bosch's cameras that have in-built Intelligent Video Analysis (IVA). An edge-based, real-time processing function that identifies alert conditions. This technology can be used, to detect a perimeter intrusion or count the number of people and more, in real time. The second is Bosch Video Management System (BVMS) that consist of an interesting feature called Forensic Search. This feature allows you to perform video analytic search in recorded video and get an immediate result. The third and newest one, is the Cloud Based Video Platform that Bosch is presently providing in Europe and the USA. This cloud based video platform has business analytics capabilities, like consumer profiling for demographics.

**Bosch IoT Showcase: Emergency Evacuation Assistance**



**What does the future hold for Bosch in terms of the progression to the BIS?**

Bosch is adding new features to the system at every release. We are also intensifying our efforts to integrate 3rd party hardware and software solutions with BIS. Bosch and our research team spends a large amount of time in continuous ground works, analysis and experimentation to invent the best security solution methods, system integrators and to keep in mind to consistently accommodate the everyday evolution of technology.

For more information, please visit: [www.boschsecurity.com](http://www.boschsecurity.com) **SST**



# BOSCH

Invented for life



## Our Focus Is Helping You To Locate, Track And Zoom In On Details

*The complete range of motion control cameras, designed to meet every need and budget.*

Having the ability to see relevant details in a scene has always been important. AUTODOME IP cameras have the ability to locate, track and zoom in on objects of interest easily. It adds precise identification and hands-on control to your surveillance system. AUTODOME IP cameras offer various resolutions up to 1080p in combination with optical zoom to identify objects of interest over large distances. This comprehensive range of quality cameras consists of different models so you can choose the correct moving cameras that perfectly suit your exact needs and budget.

The AUTODOME IP range of cameras offers you total control of what you choose to see, and the level of zoom you use. All AUTODOME IP cameras feature Content Based Imaging Technology (CBIT). Captured images are tailored to the content of the scene. Depending on movement and varying light intensity, the camera settings are adjusted continuously and dynamically. CBIT also includes Intelligent Defog that ensures the camera's visibility is significantly improved when viewing foggy or other low contrast scenes.

Intelligent Dynamic Noise Reduction saves up to 50% bitrate at the source, which significantly reduces storage costs and network strain without compromising video quality. AUTODOME IP cameras are fully supported by Dynamic Transcoding technology. This gives you easy instant 24/7 remote access to camera controls, live video streams, recordings, and HD images, regardless of available bandwidth.

### **AUTODOME IP 4000 HD**

Designed for indoor applications, its discreet dome housing blends perfectly into the interior design and can cover a sizable surveillance area. Full pan and tilt control works with the 12x optical zoom capabilities. Its HD resolution and an incredible high frame rate of 30 fps, enable you to capture fast moving objects easily. The AUTODOME IP 4000 HD is designed for applications that demand the right balance between aesthetics and performance.



AUTODOME IP 5000 IR

AUTODOME IP 5000 HD

AUTODOME IP 4000 HD

### **AUTODOME IP 5000 HD**

Ideal for indoor and outdoor applications where HD object identification up to 280 meters, and object detection distance of up to 1000 meters, is required. The addition of superior privacy masking makes this AUTODOME IP camera ideal for monitoring public areas without compromising the privacy of individuals. With its high resolution and 30x optical zoom, the AUTODOME IP 5000 HD delivers the highest quality of relevant images - even over large distances.

### **AUTODOME IP 5000 IR**

This model is specifically designed to deliver the highest image clarity in extreme low light situations, or even in complete darkness. Its built-in intelligent IR beam ensures that objects of interest always have the optimum illumination - regardless of zoom level. With object identification at 280 metres during day time, and 150 metres during night time or low light levels, the AUTODOME IP 5000 IR gives you control, precision and detail wherever you choose to use it.

With our AUTODOME IP range of motion control dome cameras we can offer security professionals a wider choice than ever. Helping you select the video technology that suits your exact needs. Our focus is innovating security where you need it most.

For more information, email Bosch at [enquiry.apr@sg.bosch.com](mailto:enquiry.apr@sg.bosch.com) or visit [www.boschsecurity.com/hdsecurity](http://www.boschsecurity.com/hdsecurity) **ESST**

KENWOOD

# KENWOOD's Pocket Size UHF FM Transceiver



**J**VC Kenwood's PKT-23 UHF FM transceiver conveniently fits right in the palm of your hand. It is durable and portable to anywhere one needs to go or be at. At only 110g, it can fit comfortably in an apron's pocket or attached with the included belt clip. The UHF FM transceiver is compliant to IP51 and 11 US MIL-STD standards. The front panel button layout makes the PKT-23 easy to operate.

It offers 5000 mWatts of power, providing a coverage area of up to 8km for direct radio-to-radio communication on the same frequency with a receiver circuit optimised for high-performance stationary antenna. The PKT-23 is built-in with a 1430 mAh lithium-ion battery that allows up to 15 hours of usage and provides up to 8 channels, allowing you to assign channels to specific team members. To signal that you have switched channels, the transceiver comes equipped with the Voice Guide alert.

For indication of transmission and low battery status, the radio comes with blinking LED lights in three colours. This gives you the ease of knowing when the transceiver is running low on battery or when it is fully charged. Additionally, it also comes equipped with a standard Micro USB terminal, which means it can be charged even through a smart phone charger. With a built-in VOX, it gives users the option of a hand-free operation, which automatically starts transmission in response to your voice when using an external microphone. The PKT-23 delivers the best benefits, well suited for any kind of circumstances.

For more information, please visit: [www.kenwood.com/sg/com/](http://www.kenwood.com/sg/com/) **ESST**





## EA MSC Releases All New RAINTAG Automatic Vehicle Identification System

**E**AMSC is one of the leading companies in the ASEAN market that has designed, developed and manufactured the long range RFID Automatic Vehicle Identification (AVI) system. Due to the product's superior performance it has a wide market appeal making it the best long range RFID AVI system in the region and worldwide.



RAINTAG is equipped with the latest and innovative RFID (Radio Frequency Identification) technology to identify moving objects at long distances. This makes RAINTAG the ideal choice for vehicle tracking and other applications requiring high-speed detection.

RAINTAG especially works best in the parking and vehicle access industries because it provides the solution for secure and convenient hands-free access control. It can penetrate easily through a vehicle's heavy tinted solar film to allow a "truly hands free" operation as it eliminates the need to wind down windows.

The RAINTAG demand has extended beyond the AVI market. RAINTAG is now widely used in commercial buildings and corporate parking areas, gated communities, airport parking, university parking, hospital parking, factories, hotels and many other areas where the reliable tracking and management of objects using long range RFID is required.

### A new generation of Readers, Tags and Tag Holders

A completely new generation of RAINTAG long-range RFID readers, tags and tag holders are now being introduced to the parking and vehicle access industries all over the world. The new generation of long-range reader incorporates the latest cutting edge technology with several innovative features and a clean and modern design. The new generation reader and tag is fully compatible and can be installed in existing installations.

For more information, please visit: [www.eamsc.com](http://www.eamsc.com) **SST**



# Display Solutions



Increase your sales with the best kind of product protection.

Designed with pristine display solutions whilst protecting high value merchandises.

- Able to protect tablets, smartphones, cameras, GPS devices, E-book, MP3 players, laptop and many more
- Easy to install, maintain and use
- Provides power to merchandise
- Has backup battery to maintain constant security
- Base mounts are securely adhesive to any flat surfaces without drilling holes
- Programmable security key will arm or disarm system – up to 20 keys for each stand

Turn shoppers into buyers by providing smart solutions on display today.

For more information, please visit: [www.CheckpointSystems.com](http://www.CheckpointSystems.com) **SST**



# Evolis' AVANSIA Functions On Retransfer Technology To Ensure Quality High-Definition Card Printouts

**E**volis presents the latest addition to its range of card printers that capitalises on retransfer technology, the AVANSIA. It presents top-notch card printing quality and over-the-edge printing. With the AVANSIA printer, card printing is performed in two steps where card layout is first printed on a transparent film and later transferred to the card surface. Combined with the 600dpi print head, the AVANSIA printer delivers printouts that boast high-definition images, as well as sharp texts, microprints and watermarks. These are important requirements for a variety of market applications such as driver's licenses, student IDs, secured access cards, official identification cards and many more.



Capable of supplying more than 140 single-sided coloured cards per hour, AVANSIA is one of the fastest printers in the industry. With its large capacity input and output hopper of 250 cards each, the printer supports high throughput at great performance. The printer is designed specifically for heavy-duty card issuance and comes with standard three-year printer warranty and lifetime warranty of the print head thereby reassuring more sustainable investment for customers in the long run.

With retransfer technology, printing on any card profile, such as, PVC, polycarbonate and ABS is made possible. To support various unique requirements of market applications, AVANSIA comes with several encoding options including magnetic, smart contact and contactless. Each Evolis High Trust colour ribbon is delivered with an RFID-based electronic key, which locks the printer to prevent any unauthorised use of the printer. The RFID tag in the key also enables user to monitor remaining capacity of the ribbons through the printer driver.

For more information, please visit: [www.evolis.com](http://www.evolis.com) **SST**

# Eco-Savvy 2.0 Series Network Cameras



## Highlights:

- Energy-saving concept of its Eco-Savvy equipment range
- Features a 4-Megapixel progressive-scan CMOS
- Smart detection features: face detection, tripwire detection and intrusion detection
- Wide dynamic range (WDR) of 120dB image enhancement technology, triple video streams and Intelligent Video Surveillance
- New and improved series' sensors – infrared light sensors allow the switch between day and night modes
- IP67 ingress protection and IK10 vandal-proofing
- Operates in temperatures between -40 degree Celsius and 60 degree Celsius



For more information, please visit: [www.dahuasecurity.com](http://www.dahuasecurity.com) SST

# Oncam's Patented Technology Puts Dewarping At Your Fingertips - Literally

Total situational awareness has been one of the primary objectives of a video surveillance system. The only way to achieve this is by using 360-degree cameras that provide optimal overall coverage of specific areas of target. However, more often than not, images being captured through fisheye lenses result in warped pictures. To address the issue, Oncam Technologies, an independent manufacturer and a global company founded in 2007, has designed a patented 3D dewarping technology, exclusively for their range of cameras and are available in Malaysia through Oncam's authorised distributor, Stratel.

The Oncam 360-degree cameras present users with distinctive benefits. Take for instance, a hotel lobby that has to be monitored by typically three or more cameras just to be able to provide decent coverage of entrances, guest movements, service counters and other areas of interest. However, by replacing them with a single 360-degree camera, mounted on the ceiling, a bird's eye overview of the entire floor is achieved. In many places, just one Oncam camera can give the same coverage as three or four fixed cameras, reducing labour costs and simplifying overall infrastructure. Furthermore, they require lesser maintenance in comparison to traditional cameras because the lens are pre-focused and with no moving parts.

## 5 camera models to meet different requirements

The Oncam Evolution line of 5MP cameras comes in a variety of flavours. The indoor, indoor Concealed and Outdoor versions all come with event configurable dry contact input and output, as well as remote audio microphone input. For users not requiring these extras, the Evolution Indoor Mini version, currently the world's smallest 360-degree IP camera is available with all the camera features intact.

Oncam cameras are officially marketed and distributed in Malaysia by Stratel (Malaysia) Sdn Bhd, please contact Stratel at 03-6157 1848.

For more information, please visit: [www.stratel.com.my](http://www.stratel.com.my) SST

**Stratel**

**ONCAM**



## Model: CP VC T20FL6

By: Aditya Infotech Asia Pte Ltd

📍 [www.adityagroup.com](http://www.adityagroup.com)

- 1/2.8" 2 MP HQIS Pro Image Sensor
- 25/30fps@1080P
- Day/Night (ICR), AWB, AGC, BLC
- 2.8-12 mm 2 Mega Manual Iris Lens
- IR range of 60 Metres
- IP66



## Model: OB-H200Np WDRPro

By: Brickcom Corporation

📍 [www.brickcom.com](http://www.brickcom.com)

- Brickcom WDR enhancement – technology up to 120dB
- I-Mode for different environments
- P-iris
- Support HDTV video quality (Full HD 1080p at 60fps streaming)
- SmartFocus upgrade to focus rapidly and remotely
- Smart IR to get a better illuminated image
- Built-in Micro SD/SDHC/SDXC memory card slot for local storage



## Model: ThruLink™

By: KBC Networks

📍 [www.kbcnetworks.com](http://www.kbcnetworks.com)

- Secure transmission over public networks
- AES / Blowfish / Camellia encryption up to 256 bit
- Embedded 3G/4G
- Supports master slave & mesh networks
- Multiple failover
- Simple setup
- Simple management



## Model: IPS 2400

By: **Dallmeier**

① [www.dallmeier.com](http://www.dallmeier.com)

- High performance server hardware with Multi-Core CPU
- Suitable for up to 24 IP video channels (SD-IP, HD-IP, megapixel)
- The integrated storage system (8 x 3.5" HDDs) allows for a high storage capacity
- The hardware concept and perfectly coordinated components allow for a high recording speed
- Hard disk drives can easily and conveniently be changed from the front side of the device in case of an HDD failure
- It has a space-saving design and a low power consumption and low heat emission
- It can be installed in a 19" rack using the included 19" bracket



## Model: Instek Digital Command Centre

By: **Good Will Instrument Co., Ltd**

① [www.instekdigital.com](http://www.instekdigital.com)

- Instant playback for prompt response
- Advanced Smart Search of video analytics on recorded data
- Alarm video pop-up by scheduling
- Pre-alarm and post-alarm video recording
- Alarm event triggered IP camera map pop-up
- Export recorded video to local file in proprietary or AVI-file format



## Model: Portable Rugged PTZ Camera with Lights

By: Hangzhou iSmart Video Tech

① [www.ismart-cctv.com](http://www.ismart-cctv.com)

- Magnesium Alloy front cover, iP66, weather proof
- Aux IR/WL lighting, 60m light distance
- Compact design, light enough to be hand-held
- Magnets at base, enable to be put on roof of cars easily
- Built-in defogger, able to work at tough working environment
- Optional damper to decrease vibration
- Image flip function, enables to be mounted upright or upside down
- HD-SDI & SD versions are available



## Model: FaceVACS-VideoScan C5

By: Cognitec Systems

① [www.cognitec.com](http://www.cognitec.com)

- Highly specialised IP video camera with built-in face detection and tracking technology
- Provides high image quality of machine vision cameras while using bandwidth and network structures for surveillance cameras
- Optimal integration with FaceVACS-VideoScan
- Migrates video processing intelligence of the stream processor into the input device
- Performs real-time, gapless face detection/tracking of multiple faces
- Generates lossless, cropped video streams (face streams) for all faces appearing in front of the camera
- Offers integrated camera control for optimized exposure on the face area
- Supports RTSP/H.264 video streams for integration with digital video recording systems



## Model: OSD2251P

By: Optical Systems Design Pty Ltd

① [www.osd.com.au](http://www.osd.com.au)

- 4-port Self-Managed Redundant Ring PoE+ Gigabit Ethernet Switch
- Plug and Play
- Provides up to 30W to each RJ45 port
- OSDview Lite Network Management System
- DIN-Rail or Wall Mounting
- Operates over the temperature range of -20 to +75°C



## Model: ATD-114U / ATD-118U

By: **Finest Security Systems Co. Ltd**

📍 [www.finecctv.com](http://www.finecctv.com)

- 4/8 Channel TVI, AHD video inputs
- TVI 1080P+AHD720P+960H
- Recording frame rate per channel 720P/960H@30/25fps
- 4 / 8 Channel sync playback
- TVI , AHD ,960H & D1 Auto detection supported
- Live display, playback and recording simultaneously
- Touch panel LCD monitor supported
- Pack with CMS software



## Model: Sparsh's Smart DVR

By: **Samriddhi Automations**

📍 [www.sparshsecuritech.com](http://www.sparshsecuritech.com)

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• H.264 &amp; Dual-stream video Compression</li> <li>• 32X fast playback</li> <li>• User configurable main &amp; sub display</li> <li>• Covert Channel Support</li> <li>• Advance Event Management</li> <li>• Heartbeat Keep alive Mechanism</li> </ul> | <ul style="list-style-type: none"> <li>• Seamless Storage over NAS/FTP</li> <li>• Fail Safe</li> <li>• Event Notification over SMS &amp; Email</li> <li>• Support 3G &amp; Wifi</li> </ul> |
|--|--|



## Model: VIVOTEK Ultra-Megapixel Fisheye Fixed Dome Network Cameras FE8391-V

By: **VIVOTEK**

📍 [www.vivotek.com](http://www.vivotek.com)

- 12-Megapixel CMOS Sensor
- 1.5 mm Fisheye Lens for 180° Panoramic View and 360° Surround View
- 360° 10 Meter IR
- WDR Enhancement
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing
- 3D Noise Reduction for Low-light Conditions
- Pixel Calculator for Image Clarity Measurement
- Support Local De-warping



## Model: Spectra Enhanced Series IP Dome System

By: Pelco by Schneider Electric

[www.pelco.com](http://www.pelco.com)

- Up to 1920 x 1080 resolution at up to 60 images per second with SureVision™ 2.0 and 130 dB WDR
- Up to 450° per second Pan and Tilt
- Full functionality using Power Over Ethernet (HPoE and PoE+)
- Low latency for improved Pan and Tilt drivability
- Defog mode provides three levels of fog removal within the image for improved image quality
- Vivid mode can be turned on/off to drastically improve the image contrast and colour saturation
- Electronic Image Stabilization (EIS)
- 16 Preset Tours, 256 Dome Presets, 32 Window Blanks
- Full Suite of built-in analytics including AutoTracker, adaptive motion detection, abandoned object, and more
- 2 simultaneous video streams: dual H.264 or H.264 and scalable MJPEG
- ONVIF Profile-S and Profile-G conformant
- Local storage through 32 GB Micro SD card



## Model: Sony Network Dome 4K Security Camera – SNC-VM772R

By: Sony Professional Solutions Asia Pacific

[www.pro.sony-asia.com/security](http://www.pro.sony-asia.com/security)

- Increased resolution without compromising low light sensitivity
- High sensitivity of 0.1 lux to capture detail-packed 4K video footage in low light environment
- The new camera uses Sony's unique bandwidth optimisation technologies so users can customise streaming settings and the camera's operation
- Automatic selection of picture settings to suit a wide range of operating environments depending on time, weather and lighting conditions
- Intelligent cropping to simultaneously observe up to four specific areas of interest in any captured images with a 4K-native resolution
- High-quality evidence shot with 20 megapixel resolution (5,472 x 3,648) still-image recording to examine the scene and produce evidence
- Optical image stabilizer to help minimize the effect of camera shake or vibration to achieve less blurry images

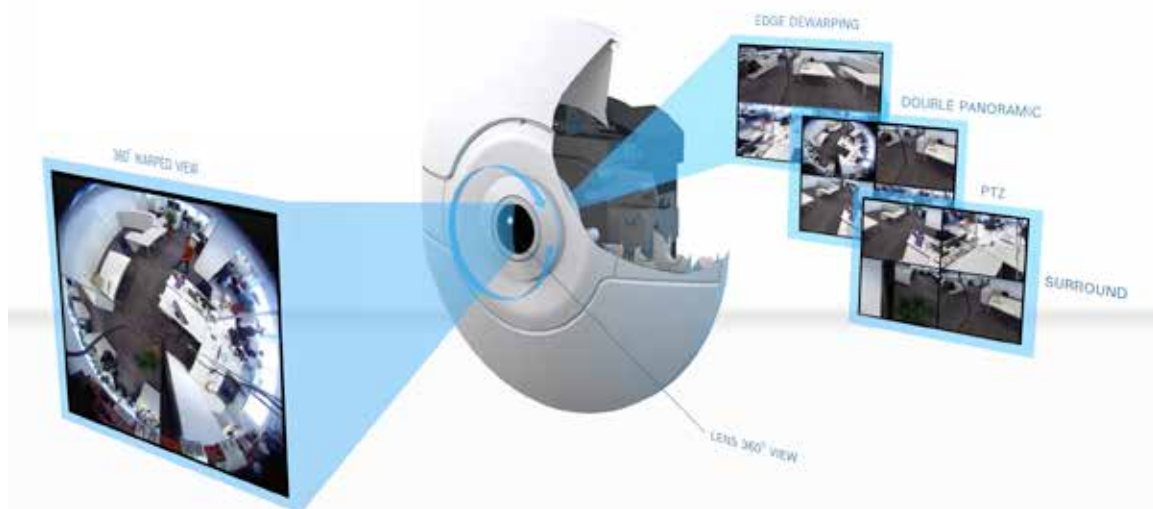


## Model: Bosch FLEXIDOME IP Panoramic 7000 MP

By: Bosch Security Systems

① [www.boschsecurity.com/hdsecurity](http://www.boschsecurity.com/hdsecurity)

- Intelligent Video Analysis - Alerting you when needed and helps you quickly retrieve video footage
- Intelligent Tracking - Never lose track of object of interest
- Intelligent Auto Exposure - Perfect exposure every time
- Intelligent Dynamic Noise Reduction - Reduces storage costs and network strain
- Edge / client-side dewarping - Eliminates fisheye distortion
- Multiple Regions of Interest - For easy management of data, without losing the bigger picture
- Dynamic Transcoding - 24/7 remote access and camera control
- Seamless integration with third-party products



## Model: uPASS Reach

By: **Nedap Identification Systems**

① [www.nedapidentification.com](http://www.nedapidentification.com)

- Long-range UHF vehicle identification reader
- Elegant slim design
- Consistent reading up to 5 meters (16 feet)
- Operates with passive UHF cards (EPC GEN 2)
- Easy integration with industry standard protocols
- 3 colour LED and beeper indication
- Indoor and outdoor mounting (IP65 rated housing)



## Model: Jablotron 100 Alarm

By: **Jablotron**

① [www.jablotron.com](http://www.jablotron.com)

- Up to 120 wireless or bus wired zones
- Up to 300 users
- Up to 15 sections
- Up to 32 programmable outputs
- Up to 3 radio modules (868 MHz)
- 20 independent calendars
- 4 settable ARCs / 5 optional protocols for ARC
- Certification to EN 50131 grade 2



## Model: COSEC Door PVR

By: **Matric Comsec**

① [www.MatrixComsec.com](http://www.MatrixComsec.com)

- Palm Vein, RF Cards, PIN
- 20,000 Palm Templates
- 1,00,000 Events Buffer
- Dot Matrix LCD and Touch Sense Keypad
- 1:1, 1:N and 1:G Verification
- Built-In Wi-Fi, Ethernet, 3G/4G

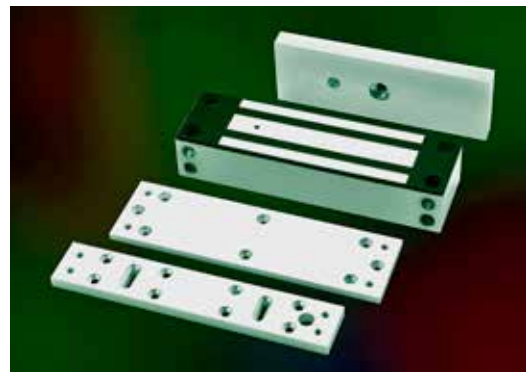


## Model: 1500lbs Water Proof Electromagnetic Lock – EXT675-SL

By: UWC Electric (M) Sdn. Bhd.

📍 [www.uwcelectric.com](http://www.uwcelectric.com)

- Water Proof EM Locks with fully sealed electronics incased with stainless steel, it is resisting the ingress of water under specified condition
- Integrated Lock Status Monitoring feature (LSMF)
- Monitored type with built-in reed switch.
- Zero residual magnetism.
- Dual voltage operation - 12Vdc / 24Vdc selectable.
- Easy installation with no special tool required.
- Low maintenance & low power consumption made it become a cost saving product.
- Suitable for outdoor applications and harsh climate.



## Model: AElement

By: Salto Systems

📍 [www.saltosystems.com](http://www.saltosystems.com)

- Uses online wireless technology in a minimalistic and attractive design
- Allows the user to integrate all physical security needs into one stylish, energy sufficient, reliable wire-free system
- Enables facility manager to control the security of the entire building, grant access privileges to individual rooms and gather audit trail data from every door – all without leaving the front desk
- SALTO's WiDNA technology permits the user the freedom to choose between the online and offline world such that AElement locks are designed to be wireless right out of the box; users simply choose whether the functionality is activated or not
- Features a wide range of advanced and innovative hotel management benefits including instant room change and instant extended stay abilities as well as lost card cancellation, intrusion alarm, door ajar alarm, remote opening, real-time audit trail, passage mode activation for meeting rooms and automated low battery reporting
- The minimalistic aesthetic of the AElement RFID reader looks stylish and discreet on any door, is available in Pearl Black and Ice White, and can be combined with a wide range of designer handles



## Model: XProtect® Access Control Module

By: Milestone Systems

📍 [www.milestonesys.com](http://www.milestonesys.com)

- Access control and video united into one powerful security solution
- An add-on product to the XProtect VMS product suite
- XProtect Access Control Module provides XProtect® Smart Client users with an easy-to-use interface to operate one or more access control systems
- Dedicated functions in the XProtect Smart Client enable users to effectively monitor events, manually control passage and conduct access event investigations from the outset
- XProtect ACM is compatible with the 2013 versions of XProtect® Enterprise, XProtect® Professional and XProtect® Express and available in the XProtect Smart Client 2013 R2



## Model: PM910C Central Payment

By: Xiamen DASHOU Technology Ltd.

① [www.dashou-china.com](http://www.dashou-china.com)

- Power Supply: 88-264V/AC, 47-63Hz
- Power Consumption: Entry Station 350W Max. (No Heater), Exit Station 200W Max. (No Heater), POS 100W Max.
- Working Temperature: Entry & Exit Station -10 degree Celsius to -55 degree Celsius and up to -40 degree Celsius with heater, POS 0 degree Celsius – 55 degree Celsius
- Working Humidity: 10 per cent – 95 per cent
- Thick Ticket Capacity: 3000 PCS. barcode
- Card Reader: Proximity / Long Range RFID
- Outdoor protection: IP54
- Communication: CAN & RS485 & RS232



## Model: MAG AR500U

By: Magnet Security & Automation Sdn Bhd

① [www.magnet.com.my](http://www.magnet.com.my)

- Dualtec RFID technology capable to penetrate premium solar film (Vkool Elite) in the market to achieve 1.8 to 7 meter range
- Affordable “Long Range” reader for “High Speed” parking access solution
- Card can be removed from transponder to be used inside the building – true “One-Card” solution for outside parking and inside door access
- Support EM (125Khz) or Mifare (13.56Mhz)
- Absolute directional 60° angle reading range to avoid unintended wrong reading of car following behind or beside.
- Integrated with MAG BR618 fast speed barrier to achieve 1.8sec opening with 4 meter arm
- Fully integrated hardware and access control software solution
- Spare part and repairing services available locally



## Model: Enforcer 32-WE App Panel, HomeControl+ App and PyronixCloud

By: **Pyronix Limited**

① [www.pyronix.com](http://www.pyronix.com)

- Now users can connect to their home from anywhere in the world with the HomeControl+ App.
- Instantly access the Enforcer 32-WE App Panel using the HomeControl+ App, which allows users to change settings, receive notifications and monitor the secured premises, all from the convenience of a smartphone or tablet.
- The PyronixCloud is fully encrypted to the AES 256 standard which ensures safe IP communication between the devices, providing a piece of mind for the end user and installers
- 4 The Enforcer 32-WE App Panel uses the Enforcer two-way wireless technology to integrate with a wide range of detectors and sensors and mobile control for a complete security solution.
- 5 The one-push-to learn feature means that Enforcer wireless devices can be programmed onto the system within seconds and with no IT configuration to connect to the PyronixCloud it is quick and easy to install.
- 6. The HomeControl+ App is available to download for free from the Google Play Store and the Apple App Store



## Model: Scan-360

By: **Ogier Electronics Limited**

① [www.scan-360.co.uk](http://www.scan-360.co.uk)

- Increases CCTV effectiveness by automatically detecting people and vehicles out 200 metres range
- Alarms on intrusion
- Programmable surveillance areas up to 360 degrees
- All weather capability
- Low cost
- Automatically slews and zooms the camera to the target
- Compact design
- Easy to install and set up
- Flexible installation options



## Model: HLX-24

By: Rosslare Enterprises Ltd

📍 [www.rosslaresecurity.com](http://www.rosslaresecurity.com)

- 24 zone wireless control panel
- Remote control with emergency button, which attaches to your keys
- Includes an interactive telephone voice menu, which offers voice-guided sessions for status, messaging, alerts
- Support HomeLogiX mobile application that controls and monitor the system via optional TCP/IP or GSM communications (av. only in IP/GSM version).
- Supports 4 remote be-directional keypads, wireless repeater, sirens and 8 remote controls
- Combines advanced functionality and ease of installation and use
- Tamper resistant
- Standard Backup battery



## Model: W Panel

By: RSI Video Technologies

📍 [www.videofied.com](http://www.videofied.com)

- The most advanced security system with colour video verification.
- WIFI, Ethernet or GPRS transmission.
- Bi-directional radio range in 868 MHz European operating frequency.
- 4-years battery life (devices).
- Mains power (WPS100) with battery back-up.
- W210: GPRS communication only
- WIP220: IP transmission only
- WIP210: GPRS communication and IP transmission.

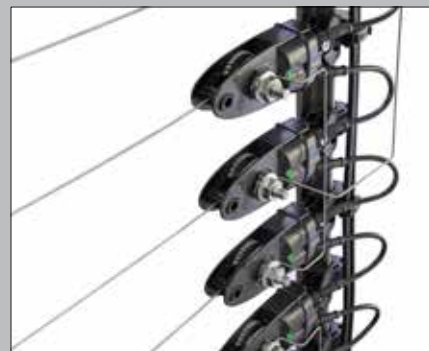


## Model: Z10 Tension Sensor

By: Gallagher

📍 [www.security.gallagher.com](http://www.security.gallagher.com)

- Provides continuous, real-time, wire tension measurement displayed in kg or lb
- Detects both fast and slow attacks and delivers high, and low, wire-tension maintenance alarms
- Generates attack alarms based on single or multi sensors
- Differentiates between environmental changes and attacks
- Has a 7kg to 60kg continuous operating tension range (15 to 130 lb)
- Provides overload protection to 200kg (440 lb)
- Enables fast installation using new Pivot Mount Technology as well as plugged and IDC connectors, the Z10 also self-aligns to optimize performance and to allow for variation in mounting angle
- Can be retro-fit to existing Gallagher perimeter security systems and integrates with Gallagher Command Centre software management platform to provide superior fence wire disturbance detection.



## Model: FlexZone – ranging fence-mounted intrusion detection sensor

By: **Senstar**

① [www.senstar.com](http://www.senstar.com)

- Detect and locate perimeter intrusions over a distance of up to 600 m
- Pinpoint intrusions with +/- 3 m (10 ft) accuracy
- Flexible software-based zoning (up to 60 distinct zones per processor)
- Power and data over sensor cables simplify infrastructure requirements
- Communication path redundancy ensures continued perimeter protection in the event of a cable cut
- Software-configurable output relays simplify integration with alarm monitoring systems
- Optional Ethernet card with Power over Ethernet (PoE) capability
- Interfaces with almost any alarm monitoring system



## Model: Solar Powered 3-beam Wireless Active Infrared Light Wall

By: **Verdard Alarms Security System**

① [www.verdardalarm.com](http://www.verdardalarm.com)

- Can be used at rainy day and dark environment as well
- Working Temperature Range: -40°C to +70°C
- Wireless transmission distance can reach to 1km
- Low false alarm rate
- Long life time and less maintenance



## Model: Multi-Sensor (Motion + Lux + Temperature)

By: **Tronico Technology Company Limited**

① [www.tronico.com.hk](http://www.tronico.com.hk)

- Z-Wave Communication Protocol
- PIR Motion Detection
- Temperature Sensing
- Light Level Sensing (Lux)
- Battery Operated (2 x AAA)
- Low Battery Alarm
- LED Indicator
- Wall Mount, Desktop Mount



## Model: GSM Communicator G10

By: **Trikdis, JSC**

① <http://www.trikdis.com>

- GSM Communicator G10 is compatible with Paradox, DSC, Caddx, Texecom, Crow, Pyronix and other manufacturer control panels, reading messages directly from control panels DATA BUS
- Using external interfaces C11 or C14 you can connect to any control panel with integrated telephone communicator (TLC port) – it ensures solid communication by three different alarm messages transferring algorithms: PSTN lines plus GSM or GSM plus PSTN lines or all communication via GSM
- Support for three alternative communication modes: GPRS, SMS and DTMF via GSM voice channel
- Module transfers all messages from indicated control panels in Contact ID codes
- Messages are transmitted through GPRS to the main or backup IP addresses – if GPRS connection is lost, messages are sent with SMS messages
- Remote control of output OUT1 status
- Quick and easy configuration via USB, remote configuration, control and update from CMS



## Model: SBT-100F

By: **Sunwave Electronics Co., Ltd**

① [www.sunwave.cc](http://www.sunwave.cc)

- High reliability, cost-effective
- Select the high performance of infrared transmitting/receiving tube
- New parasitic light wave filtering face-piece, effectively filter out parasitic light interference
- Optimized circuit design, products with higher cost-effective
- Super strong lightning protection design
- Simple, convenient installation and adjustment
- LED status equipment, easy to install and detect



## Model: CP900

By: Cytech Technology Pte Ltd

🌐 [www.cytech.biz](http://www.cytech.biz)

- 8 zones expandable to 96 zones of alarm
- 8 outputs expandable to 96 outputs
- Dialer to 8 telephones including CMS voice
- Option for sending SMS and email in the event of any alarm
- Up to 8 keypads able to act as intercom with telephones
- Door station can ring internal phones or dial to mobile phones
- Able to use iOS and Android apps to control the system
- High customisable by programming



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## Model: 3i Visitor Management Systems

By: 3i Technologies Pte Ltd

① [www.3itechnologies.com](http://www.3itechnologies.com)

- Enhance operating procedure of visitors check in through technology
- Visibility of visitor's location and time of visit
- One time registration for visitors and the subsequent visits through scanning of barcode on ID
- Visitor registration in the system with picture taken and document attached
- Visible label printed through system check in to indicate visitor authorised entry
- Prevent unauthorised visitors from entering the premises through backlisting function
- Generating list of visitors report in different format
- Pre-registration for large group of visitors



## Model: Advantech ARK-V amd ARK-S Series

By: Advantech Co. Singapore Pte Ltd

① [www.advantech.com](http://www.advantech.com)

- Integrated in-vehicle and outdoor video surveillance solutions
- Integrated software for manageability and security
- Achieve high efficiency, lower TCO
- Certified in-vehicle, safety and rugged solutions
- Well-developed vehicle and surveillance SDK and APIs
- Multi-expansion for diverse scenarios



## Model: eXtreme Power 11n 2.4Ghz 1x1 In Wall PoE Access Point (800mW)

By: Cerio Corporation

① [www.cerio.com.tw](http://www.cerio.com.tw)

- IW-100GX-N bundles CenOS3.0, operation modes: pure AP+WDS mode, pure WDS mode, client bridge universal repeater mode, WISP repeater + AP mode
- IW-100GX-N-NGS bundles CenOS4.0, operation modes: Authentication AP, Control AP, Thin AP
- Supports 8 Multiple-ESSID / IEEE802.11f IAPP
- Integrated IEEE 802.3af Power over Ethernet (PoE)
- Max WDS Link x 8 (Wireless Distribution System) for Pure WDS Bridge
- Built-in wireless RF signal enable and disable by time scheduling function
- IEEE 802.1Q Tag VLAN priority control and SNMP v1/v2c/v3 , SNMP Traps Supported
- Supports IEEE802.1d Spanning Tree



## Model: CSG 10506 – Crash Tested Shallow Depth Road Blocker

By: Cova Security Gates Ltd

① [www.covasecuritygates.com](http://www.covasecuritygates.com)

- Specifiers and end users alike are choosing the PAS 68: 2010 crash tested CSG 10506 due to its shallow depth of 215mm, enabling minimal on site excavation, fast arming times and the fact the product is 100% duty rated. This makes it ideal for the busiest traffic throughput sites but still maintains the very highest levels of security against vehicle borne attack.
- Manufactured from heavy duty steel sections full welded.
- The Road Blocker has been designed for axle weights of 15 tonne.
- Installed globally, protecting key buildings and installations around the world from criminal and terrorist threat or attack.
- Manufactured in the United Kingdom.



## Model: EX78900 Series 16-port (8xPoE) Gigabit Ethernet Switch

By: EtherWAN Systems Inc.

① [www.etherwan.com](http://www.etherwan.com)

- Total 16 Gigabit ports
- 8 PoE ports with maximum of 4-port 6-W UPoE support with 240W power budget
- 4 Gigabit SFP ports
- Intelligent management features such as QoS, VLAN and PoE configurations
- Ruggedised DIN-Rail mount housing
- Supports PD with high power consumption such as HD PTZ camera



## Model: SafeCash Retail Station

By: Gunnebo Singapore Pte Ltd

① [www.gunnebo.sg](http://www.gunnebo.sg)

- Wide variety of functionalities to process and recycle notes and coins
- Improved cash management
- Less back-office administration
- Real-time monitoring of cash levels – better CIT service
- Complete transaction transparency – no cash discrepancies
- Reduce the risk for robbery and increases security
- Same-day credit
- Back-office POS matching



## Model: TruCam LTI 20-20

By: Turbo Consultancy Services Pvt. Limited

① [www.turbosecurity.com](http://www.turbosecurity.com)

- All-in-one handheld laser-based video and photo camera
- Easily accessible camera lens for quick focusing and iris levels
- Built-in SD card slot or quick access to the violations
- Colour-coded buttons matching the touch-screen interface for alternative user operation
- Tamper-proof data encryption
- Defeats laser jammers
- Save and record violations only within the desired speed limit



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CPS Forum 2015 - The 13<sup>th</sup> China Public Security Forum  
The Public Security Academic Forum



### Exhibitor partial list



## Model: RAINTAG AVI SYSTEM

By: EA MSC

① [www.eamsc.com](http://www.eamsc.com)

- Adjustable reading range of up to five metres
- High immunity to noise
- Integrated antenna
- Wireless communication design for retrofitting
- Low operating frequency
- Better penetration through vehicle's window tinting
- Automatic tuning technology to reduce interference
- Dual technology with integrated Mifare or Desfire (one card solution)



## Model: Hytera SmartOne

By: Hytera Communications Co., Ltd

① [www.hytera.com](http://www.hytera.com)

- Multi-system intercommunication
- Advanced voice pressing technology and enhanced user experience
- Mobility-oriented dispatching platform
- Customised GUI
- Whole network unified user management



## Model: Smoke Cloak

By: **Stratel (M) Sdn Bhd**

① [www.stratel.com.my](http://www.stratel.com.my)

- Very high output of dense white fog for maximum protection
- Built-in battery back-up
- Patented automatic density smoke control
- Heavy duty sabotage resistant case
- Audible tone status signal
- Internal system status L.E.D indicators
- Built-in self diagnostics facility
- Electronic fluid measurement

**SmokeCloak®**



## Model: Care Alert

By: **Tyco Integrated Fire and Security**

① [www.tycoifs.sg](http://www.tycoifs.sg)

- Simple operation: Just a push on the panic button or the lightweight waterproof pendant to activate help – no numbers to press or remember
- Readily connect to our emergency response center – 24 hours a day, 7 days a week
- Motion detector senses a prolonged lack of movement to raise the alarm on any potential emergency
- Quick and easy installation
- Alerts family or emergency services in the event of an unexpected situation
- Ideal for the elderly, physically challenged individuals, retirement or nursing homes



## Model: Fido B2

By: FLIR Systems, Inc.

① [www.flir.com](http://www.flir.com)

- Provides near real time warning capability for biological aerosol threats
- Government validated with over 3,000,000 hours of run time in relevant environments
- Alert can automatically trigger a particulate sampler for subsequent identification
- Operates unattended 24/7 without consumables
- Complete self-diagnostic system
- Battery or line powered with up to 16 hour run time per battery charge
- Easily integrated with most building monitoring and control systems
- Alert algorithms validated for both indoor and outdoor environments



## Model: Evolis Primacy Card Printer

By: ALC Technologies Pte Ltd

① [www.alc.com.sg](http://www.alc.com.sg)

- Highest running time thanks to a full 100-card capacity
- Single or dual-sided, with easy on-site upgrade
- USB & Ethernet
- The fastest printer
- Better image processing
- Based on the Evolis know-how and on experience with Pebble & Dualys
- A full 3-year warranty, without limitations in number of printouts



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Fax: (65) 6741 6200  
RCB No: 19880111W  
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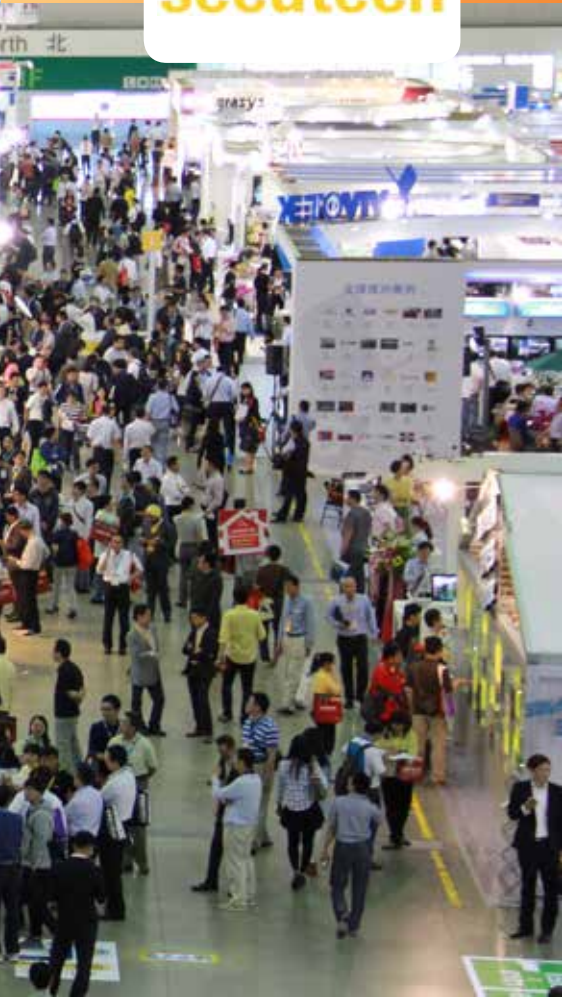
## Secutech 2015 Attracts Over 26,000 Visitors Worldwide With Cutting-Edge Technologies And Innovations

### Insightful fringe activities covered a wide spectrum of industry sectors

One of the most influential international exhibitions for security professionals, Secutech 2015 successfully concluded this year's edition on a high note. Organised by Messe Frankfurt New Era Business Media Ltd, the 18th edition of Secutech utilised 35, 875 square metres of exhibition space, spanning from the 28th to 30th of April 2015. The event took place in Taipei at the Nangang Exhibition Centre.

Exhibitors included a total of 485 companies from 19 countries and regions showcasing a wide variety of impressive technologies and products. By covering everything from access control, fire and safety, information security and IP surveillance to HD transmission, smart home, software and storage, the fair offered a holistic platform for international professionals to connect with manufacturers, OEMs and security enterprises to facilitate trade and partnership.

Mr Parson Lee, Managing Director for the organisers



said, "The year marked the debut of SMAhome Expo, a special zone featuring a line-up of over 150 home automation experts and international standards. The enriched profile of Secutech has received acclaims and unflinching support from the industry for further streamlining sourcing and developing opportunities for broadening the business scope and network. I am confident that the show will continue to serve as a first choice platform for industry players to unveil the latest trends and innovations in the global market."

### Ample of opportunities praised by participants at Secutech 2015

To many world-class brands, Secutech is a significant event for launching new innovations, networking and conducting industry research. Industry giant Hikvision Digital Technology Co. Ltd from China is one of the loyal supporters of Secutech. They launched their

latest safety building solutions and two series of smart camera, the lighter fighter and dark fighter, at this year's affair. They company has generated over 200 business leads with professional buyers from Taiwan, Japan, India and other countries from the Middle East and Europe. Whether visitors were searching for new and exciting security products to sell to consumers, or innovative solutions to apply to upcoming projects, they were treated to a wealth of selections at the show.

Mr Derek Yang, Asia General Manager of Hikvision shared, "Secutech is highly recognised by the global industry and of significant international influence. We have met many visitors who are knowledgeable. They have purchasing authority. I am glad they are very much interested in our new features after viewing the demonstration. Like always, we have good results and will definitely exhibit at the show again."



Echoing Mr Derek Yang's positive comments was Ms Stacey Lien, Department Manager, International Sales Department, Viviotek Inc. The company has picked Secutech as a platform for launching its brand new L2 Vivocam PoE Switch, the world's first PoE switch with IP surveillance management function. Ms Lien said, "The new product launch is successful since we are able to reach a lot of system integrators and end users, and interact with them to learn more about their feedback and comments. We take part at Secutech every year and it never ceases to amaze us. It is Taiwan's most leading platform for the security industry."

Leading brands in data storage reflected similar sentiments. Featuring their state-of-the-art storage solutions, including cloud storage, SSDs and HDDs, Toshiba Electronic Components Taiwan Corporation's Storage Products Div Associate Senior Manager, Ms Jenny Yang mentioned, "Though Toshiba is a renowned brand we are pretty new to the security sector, we are here to promote our brand to international industry players at Secutech. We have received inquiries from local and overseas visitors from Dubai and the Middle East. They

are mainly system integrators, distributors and end-users. We are satisfied with the result so far."

Distributor from India, Mr Maqsood D Shaikh, Director of Innovative Ideals & Services Pvt Ltd, attended Secutech solely for smart home products. According to Mr Maqsood, deeming his visit as purposeful while he said, "Secutech as well as the SMAHome Expo are informative and helpful for seeing new suppliers and vendors with the latest technologies. I have requested most of the participating suppliers to provide samples for testing in the Indian market. We are likely to cooperate in future. I would love to visit the show again to fetch new technologies and vendors next year."

Fellow visitor, Mr Chua Peng Tian, Group CEO for ADP Securegroup Pte Ltd from Singapore, the reputable supplier of security solutions and services in Asia is no stranger to the show. He shared, "I witnessed the growth of the fair and am pleased with its product categorisation now. As always, I am able to look at new products and solutions, which can be implemented for my company's projects. Secutech is an exceptional event which I visit





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regularly to keep myself up-to-date with the industry advancement and innovations.”

### Insightful fringe activities covered wide spectrum of industry sectors

Alongside the event, a total of 140 seminar and conference sessions were held over the three-day run. The programme aimed to increase knowledge between professionals and provide a multi-cultural look at how emerging security challenges were being handled around the world. One of the highlights of the show was the first edition of SMAhome International Conference. Leading brands and global standard associations were featured to assist industry players to understand the market condition and explore future trends in the industry.

One of the guest speakers, Mr Tobin Richardson, President and CEO of ZigBee Alliance introduced ZigBee global standards on smart home products and the benefits to the entire industry. He sang praises saying, “We are really impressed with the attendees of the conference,

particularly at our session, questions asked and also the conversation we had indicate the people here have a good understanding of what is relevant for consumers, as well as what is important in global standards and certification programmes. I am looking forward to building on good relationships that started here. I also recommend the show to our Alliance members since they will be able to see what is available in the Taiwan market and the global manufacturers that are utilising the show to demonstrate all their products and services.”

“The conference has added huge value to my experience as an exhibitor here. The content of presentations is highly relevant to my business since my company specialises in cloud storage and home automation

technologies. I have acquired detailed information of new smart home products and applications. The session was interactive and both fellow audiences and speakers are knowledgeable of the market conditions in Asia. The presentation followed by discussion was thought provoking and rewarding. It offered us an invaluable chance to exchange ideas and network with each other”, commented Mr Simon Fan, Sales Manager, Shenzhen Jiayun Intelligent Technology Co. Ltd.

The next edition of Secutech is scheduled to take place from 19th to 21st of April 2016 at Taipei Nangang Exhibition Centre. For more details about Secutech, please visit: [www.safety-security.messefrankfurt.com](http://www.safety-security.messefrankfurt.com)

#### Secutech 2015

**Date:** 28 – 30 April 2015

**Venue:** Taipei Nangang Exhibition Centre, Taipei, Taiwan

For more information, please visit: [www.secutech.com](http://www.secutech.com) **SST**

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