

# Security Solutions Today

March / April 2017

## INTERNET OF THINGS (IoT)

Cover **FOCUS** ONVIF's Role in the Internet of Things and Cloud-based Access Control  
Inside **Look** A Look Ahead for The Security Industry in 2017  
In **FOCUS** Interviews with ONVIF & NSFOCUS



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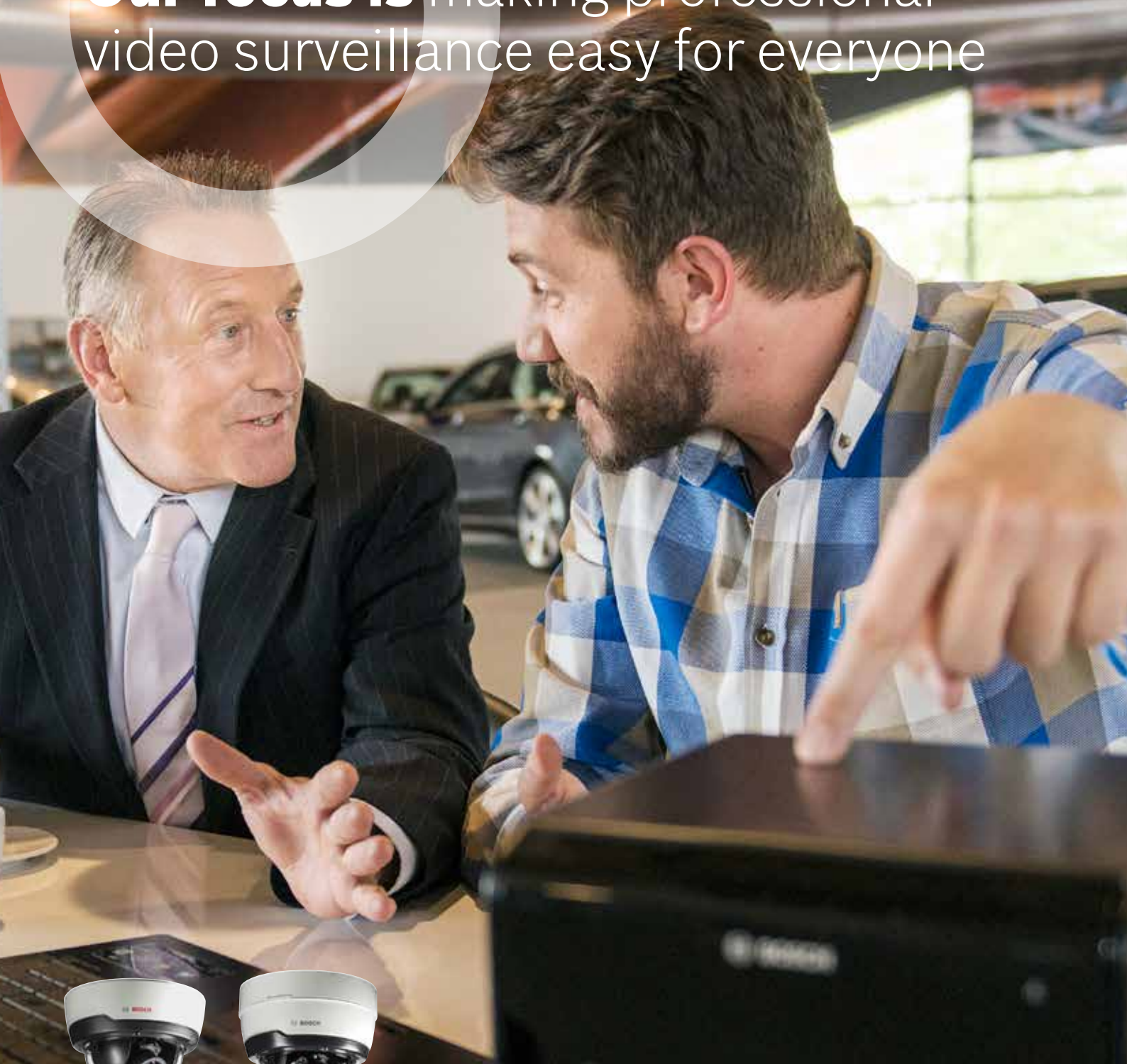
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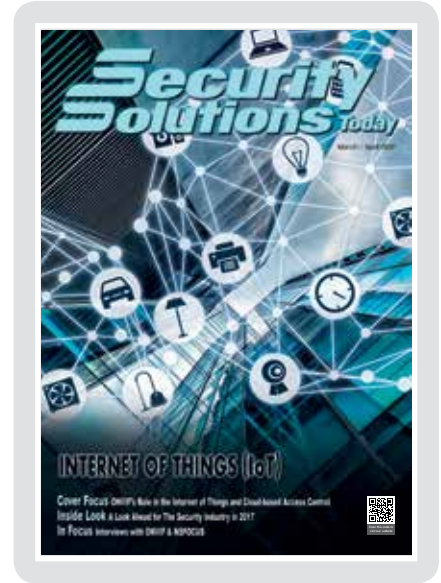


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### IOT Asia 2017

Date: 29 – 30 March 2017  
 Venue: Singapore Expo  
 Organiser: SingEx Exhibitions Pte Ltd  
 Tel: +65 6403 2100  
 Email: registration.iotasia@singex.com  
 Website: www.internetofthingsasia.com

### Milipol Asia Pacific/ GSA 2017

Date: 4 – 6 April 2017  
 Venue: Sands Expo and Convention Centre, Singapore  
 Contact: Andrew Marriott  
 Organiser: The GIE Milipol, Comexposium and GSA Exhibitions Pte Ltd  
 Tel: +65 6392 5328  
 Email: andrew.marriott@comexposium-sg.com  
 Website: www.milipolasiapacific.com

### Secutech 2017

Date: 12 – 14 April 2017  
 Venue: Taipei Nangang Exhibition Center, Taiwan  
 Organiser: Messe Frankfurt New Era Business Media Ltd  
 Tel: +886 2 8729 1099  
 Email: info@newera.messefrankfurt.com  
 Website: www.secutech.tw.messefrankfurt.com

### IFSEC Philippines 2017

Date: 3 – 5 May 2017  
 Venue: SMX Convention Centre, Pasay City, Metro Manila  
 Contact: Mr. TJ Tan  
 Organiser: UBM EMEA  
 Tel: +6-03-2176 8788  
 Email: tj.tan@ubm.com  
 Website: <http://www.ifsec.events/philippines>

### IFSEC International Show 2017

Date: 20 – 22 June 2017  
 Venue: London ExCeL, United Kingdom  
 Contact: Gerry Dunphy  
 Organiser: UBM EMEA  
 Tel: +44 (0)20 7069 5000  
 Email: ifseccustomerservice@ubm.com  
 Website: www.excel-london.co.uk

### Interpol World 2017

Date: 5 – 7 July 2017  
 Venue: Suntec Singapore Convention and Exhibition Centre, Singapore  
 Contact: See Lay Eng  
 Organiser: Interpol  
 Tel: +65 6389 6613  
 Email: layeng.see@interpol-world.com  
 Website: www.interpol-world.com

### IFSEC Southeast Asia 2017

Date: 6 – 8 September 2017  
 Venue: Kuala Lumpur Convention Centre, Malaysia  
 Contact: Mr. TJ Tan  
 Organiser: UBM EMEA  
 Tel: +6-03-2176 8788  
 Email: tj.tan@ubm.com  
 Website: [www.ifsec.events/sea/](http://www.ifsec.events/sea/)

### Secutech Thailand 2017

Date: 16 – 18 November 2017  
 Venue: Bangkok International Trade & Exhibition Centre, Bangkok, Thailand  
 Organiser: Messe Frankfurt New Era Business Media Ltd  
 Tel: +886 2 8729 1099  
 Email: info@newera.messefrankfurt.com  
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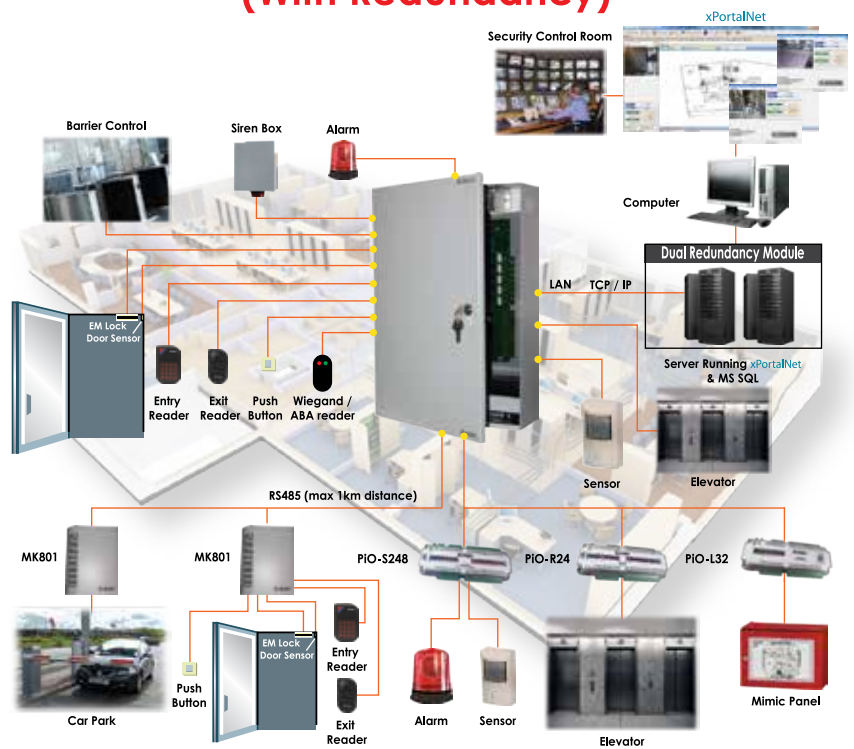
- ▶ 64 Bit Programmable Card ID
- ▶ Encrypted with 3DES
- ▶ Card ID Not by Serial Number

### P1000i PoE Controller



- ▶ PoE with Battery Charger
- ▶ AES128 Encrypted IP
- ▶ Support 1 Door/2 Readers

### Integrated Security System (With Redundancy)



### Projects



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Our Office





# Editor's Note



*Dear esteemed readers,*

**W**elcome to the March/April issue of Security Solutions Today! We are pleased to bring to you the latest in Security.

This issue focuses on the Internet of Things (IoT). In the Cover Focus, we bring to you an interesting piece on cloud-based Access Control and the role of ONVIF in the IoT- from their perspective. In Vertical Market category, we have put together articles and case studies on Residential Security in view of the theme. SST looks at how smart technology has changed the way we secure our homes. A variety of contributors have shared interesting case studies for your perusal.

In Inside Look, Genetec shares with us its take on A Look Ahead for The Security Industry in 2017, focusing on how it is coping with IP technology. In a series of Security Features, we have also brought to you a series of up-to-date technology in wearable biometrics and the changing world of physical security as elaborated by a few companies. Lumen ID, for example, has contributed a piece about New Age dangers posed by Smart Card Keys. TycoIS has shared a piece on methods of protecting important infrastructure such as schools.

New in this issue, is a special product feature based on the theme of Dectors and Sensors. For Security enthusiasts, we have also included a preview into IoT Asia 2017. Finally, this issue contains two illuminating interviews with Jonathan Lewit, Chair of the ONVIF Communication Committee and Guy Rosefelt, Director, Web Security Management, NSFOCUS about critical infrastructure and issues revolving around the IoT as well as cyber attacks. Do read on to find out more!

I hope you enjoy reading this issue as much as I did, assembling it. SST looks forward to providing you with more interesting themes as the year rolls on.

*Sharanya M*

Editor

# FOSTERING INNOVATION FOR FUTURE SECURITY CHALLENGES

Congress: 4-6 July 2017 | Exhibition: 5-7 July 2017  
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international solution providers and manufacturers

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## Time-Sensitive Networking

**S**t. Louis, Missouri - Belden Inc., a global leader in signal transmission solutions for mission-critical applications, has highlighted how Time-Sensitive Networking (TSN) is the key to the future of automation networks. At SPS/IPC/Drives 2016 in Nuremberg, Belden showcased TSN using Hirschmann's RSP series of Ethernet switches and TSN configuration using the Hirschmann Industrial HiVision network management system.

Engineers from the company's Hirschmann brand have made significant advancements in bringing standardized real-time communication to industrial applications through TSN. Firstly by making significant contributions to the IEEE 802.1 TSN standardization process, and subsequently by integrating the emerging standards into the company's industrial networking equipment, making it possible to take advantage of this technology today.



According to Dr. Oliver Kleineberg, advance development manager for Belden's Hirschmann brand, Belden continues to make TSN a reality: "It can be deployed as a key technology in automation networks as TSN standards allow simultaneous transmission of time-critical messages and background traffic. TSN offers a range of benefits to industrial networks. These include guaranteed, specific end-to-end latency for mission-critical and time-sensitive applications as well as low jitter; interoperability across vendors to create a seamless ecosystem that can evolve; and greater flexibility for manufacturers to quickly adapt and leverage standard Ethernet technology innovations, such as higher link speeds or new physical media."

Although TSN requires more configuration effort than standard Ethernet – industry-leading products and technologies from Belden's Hirschmann brand can help to leverage the advantages of TSN without introducing a massive network management overhead.



### Feasible For Actual Use Through Proper Tooling

Dr. Kleineberg: "TSN networks can be managed by accessing, configuring and supervising each switch and end device individually. TSN adds additional complexity to this configuration process, which is a direct result of the necessity to configure the IEEE 802.1Qbv Time-Aware Scheduler parameters on each switch and end device. The proper tooling can save a lot of time in setting up TSN real-time networks and makes this technology feasible for actual use. And in case of malfunctions in the network, for example due to configuration errors in the scheduling parameters on a device, it is very hard to spot these kinds of errors without adequate tooling and visualization."

Dr. Oliver Kleineberg concludes: "With the unique challenges introduced by the Industrial Internet of Things (IIoT) and Industry 4.0, TSN provides a standardized solution for real-time Ethernet communication, enabling mission-critical networks to provide high-bandwidth and the possibility to support communication streams with different quality of service on the same network."

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

# secutech THAILAND

16 – 18 November 2017  
Bangkok International Trade &  
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## SMART AND SAFE CITIES FOR TOMORROW

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### Event Highlight of Secutech Thailand 2017 – Demo Zone

In the 2017 edition, Secutech Thailand will introduce real intelligent solutions – real world scenario display creating a smart city solution experience.

The Smart and Safe City Complex demo zone will feature various popular vertical solutions in the Thai security market, such as hotel, retail, city surveillance, transportation, etc.



### Secutech Thailand — Bringing "Smart" into Security Solutions

In 2017, Secutech Thailand will  
showcase six theme zones to meet  
the market demands:

- Security
- Smart Home
- Smart Retail
- Safe & Smart City
- Fire & Safety
- Disaster & Prevention



### Target Visitors

• **Business nature:**  
systems integrators, installers,  
importers, distributors, retailers,  
developers, system designers,  
security service providers and  
manufacturers

• **Vertical Markets:**  
government, transportation,  
construction, enterprise,  
finance, telecommunication,  
retail, hospitality, public law  
enforcement

Global contact

Messe Frankfurt New Era Business Media Ltd | Mr Jason Cheng | Tel: +886 2 8729 1099 ext 215 | [stth@newera.messefrankfurt.com](mailto:stth@newera.messefrankfurt.com)

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## Qognify Opens New Corporate Headquarters in New York

**Strengthening its North American Presence to Support Customers and Partners in Sales, Training, Service and with Cutting-Edge Solution Demonstration**

**P**earl River, New York– Qognify, the leader in big data solutions for physical security and operations, today announced the opening of its new corporate headquarters office in Pearl River, New York. Located in the Blue Hill Plaza complex, the new expanded headquarters is home to corporate management functions and the regional sales team, enabling better support to customers and partners.

Just 20 miles outside of Manhattan, Pearl River in Rockland County is strategically located with convenient access to both New York and New Jersey. Customers and partners will be able to visualize Qognify’s state-of-the-art, market leading Situation Management platform: Situator 8.0 with its Operational Intelligence Center (OIC); VisionHub, the new intelligent IP Video Surveillance and Security Management System, and Qognify’s next-generation real-time Video Analytics solution- Suspect Search.

The Blue Hill Plaza was designed with powerful redundancy to support critical organizations such as the once bustling NYNEX stock exchange. This was proven during Super Storm Sandy, as it was one of the few buildings in the area that did not lose its power supply. This makes it an ideal location to host customers and partners for demo and training purposes.

“With a close proximity to the metropolitan of New York and its airport network, our new location offers ideal access to customers and partners from the US and around the world.” said Moti Shabtai, President of Qognify. “In this new location, we will have access to top talent to further grow our business in the Americas and oversee the company’s global operation.”



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





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## Bittium to deliver Bittium Tough Mobile smartphones and related back-end system for the Finnish Defence Forces

**O**ulu, Finland— Bittium has signed a contract with the Finnish Defence Forces for the delivery of Bittium Tough Mobile LTE smartphones and related Bittium Secure Suite back-end system classified for Confidential level. The contract signifies a strategic decision to reinforce the information security of the wireless communications of the Finnish Defence Forces. Bittium Tough Mobile smartphones and the related back-end system will be used in different and diverse functions within the Finnish Defence Forces.

In order for a phone and a related back-end system to achieve the Confidential level classification, there are specific information security requirements regarding the processing of classified information, secure wireless transfer of files, and other possible communication, which need to be met. Bittium Tough Mobile LTE smartphone and its back-end system designed for this classification level include

features that have been hardened based on the Katakri 2015 requirements, such as, hardened operating system, hardened user identification, and data transfer. In addition, the solution includes Digia Salpa, a mobile communications encryption product that provides strong encryption of both calls and messages.

Bittium Tough Mobile designed for the classification level Confidential has a unique dual-boot functionality that makes Bittium Tough Mobile a device with two completely separate operating modes, Public and Confidential. This enables one to switch between both professional use with high-level information security and personal use.

Bittium Tough Mobile smartphone includes several innovative features that have been designed for authorities and other professional uses where reliable and secure communication is needed. The Android-based device has a

mechanical structure that is a combination of extreme durability and the usability of a modern and advanced smartphone. Bittium Tough Mobile smartphone incorporates a hardware-based security platform, global support for LTE frequencies, professional level audio features, and the possibility to use two different SIM cards.

Bittium Secure Suite is a device management and encryption software product that complements Bittium Tough Mobile smartphone with a scalable set of new software services for remote management, remote attestation and securing the network connections of the device. Bittium Tough Mobile smartphone and Bittium Secure Suite together form a unique and reliable system for processing and transferring encrypted and classified material, and securing critical communications.

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

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## New OnSSI Ocularis VMS Enhancements Provide Greater Mobility, Better Bandwidth Utilization and More Versatility

**P**earl River, NY— OnSSI announced the latest enhancements to its industry leading Ocularis Video Management System (VMS) that further improves overall security with new features and enhancements. Ocularis version 5.3 adds new scalable Web and Mobile apps, as well as Ocularis Client bandwidth optimization, wide angle image dewarping, additional Smart Camera Drivers, and Windows Server 2016 support all while keeping its responsive and intuitive user interface.

### Enhancements to Ocularis

To help keep users informed at all times, the new Ocularis 5 Web allows simultaneously viewing of multiple live and recorded camera streams on an improved and intuitive user interface. Automatic bandwidth optimization allows system administrators to control the streams from remote locations to ensure there is sufficient bandwidth available even if pulling video from a remote location over broadband. All Ocularis alerts and events

*continue on page 16*



# IFSEC Philippines

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stream to the Ocularis 5 Web interface where they can be viewed and sorted by priority with enhanced control of PTZ cameras.

The new Ocularis 5 Mobile provides comprehensive event and alert processing right from the mobile app along with the ability to stream live video from an Android smartphone to Ocularis. Also available on the Android platform is the ability to pinpoint locations on an online map on Ocularis 5 Mobile. This allows users to see mobile operator locations in maps on Ocularis Client and view their streaming cameras. This provides security personnel in the field with the ability to upload live video directly from their smartphone as events are unfolding. Uploaded video can then be recorded and redistributed to authorities. Camera selection is also more intuitive, and views can be seen in various formats with regular and alert recordings identified by color. GPS location features for mapping and notification sounds are also included. Ocularis 5 Mobile is available for free on the Google Play and Apple App stores, and is optimized for

3G and 4G networks.

Additional Ocularis enhancements include expanded dewarping support for wide angle images, new Smart Camera Drivers for Bosch and FLIR P and FT series cameras and an updated Smart Camera Driver for Axis and Hikvision to easily add new cameras and support for Windows Server 2016. Ocularis 5.3 also includes 64-bit versions of every Ocularis system component: Client, Administrator, Event Proxy, Base, Recorder and Media Server.

Ocularis 5.3 is offered in three models: Professional, designed for organizations operating multiple locations with small to mid-sized camera counts; Enterprise, built for a wide range of mid to large IT-centric organizations; and Ultimate, created for large organizations with demanding command and control needs and recording server failover.

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

## Cognitec Hires Terry Hartmann as Vice President to Drive Growth in the Asia

### Cognitec Hires Terry Hartmann as Vice President to Drive Growth in the Asia Pacific Biometrics Market

**R**enowned biometrics pioneer Terry Hartmann will lead business development and client relations as Vice President Asia Pacific at Cognitec Systems Pty Ltd.

Hartmann will direct an international sales and support team to meet the demands of an expanding biometrics market in the region. Governments in Australia, New Zealand and many Asian countries are investing heavily into large-scale biometric projects, and many of them have trusted Cognitec's market-leading face recognition technology for more than a decade. "Face biometrics is now a proven technology, yet has so much potential for growth. Asia Pacific is certainly the place where innovation can be realized," said Hartmann. "I am excited to leverage Cognitec's products into numerous security and facilitation benefits to prospective clients, integrators and their customers."

Cognitec gains Hartmann's world-wide leadership experience in the identity and security domains. Most recently, he led the transportation business in the U.S. and Canada for Unisys, and before that managed their solutions for industry applications globally. Hartmann became an internationally acknowledged thought leader on applying biometric and chip technologies to border control/identity management during his tenure with the Australian Passport Office. He was the author of the ISO/ICAO international standards for face recognition in ePassports, and has won numerous international awards. Organizations around the world have invited him as a key speaker.

"Terry brings to Cognitec a long-standing, remarkable reputation as an industry expert," said Cognitec CEO Alfredo Herrera. "We are certain that his passion for advancing biometric technologies, and his experience with global applications and projects, will perfectly align with Cognitec's growth strategy in the Asia Pacific region and further strengthen our business position and relationships."

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



## GJD Appoints New Sales Consultant For France

**G**JD, an award winning British manufacturer of professional external detector equipment and LED illuminators, is pleased to announce the appointment of Khadija Onneby as the company's new Sales Consultant for France.

Khadija will be responsible for GJD's sales in the French market. Commenting on the new position Khadija said: "I know the potential that GJD has in France and I want to contribute to its success in building a strong partnership with their current customers and building a new network".

Khadija's international experience and linguistic skills, (fluent in French, English, Spanish and Arabic), are fundamental in being able to set new records for the sales of GJD equipment in France and other export markets.

Khadija will help to develop GJD's distribution networks, secure long-term supply contracts and manage new product launches for the French market.

Ana Maria Sagra-Smith, GJD's Sales and Marketing Director commented: I am delighted to welcome Khadija to GJD. Khadija's experience and knowledge of the security industry in France will be a fantastic asset to GJD".

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



## Panasonic releases enterprise-class, integrated open platform security solution with lower total cost of ownership

**Video Insight Video Management Software integrates powerful features, hardware optimisation and cost efficiency in one robust system**

**S**ydney- Panasonic Australia has announced the availability of an enterprise-class video management security solution, with the launch of Video Insight Video Management Software (VMS). The solution will be demonstrated by Panasonic at the upcoming ASIAL (Australian Security Industry Association Limited) exhibition at the Melbourne Convention and Exhibition Centre from 20-22 July.

Supporting more than 3000 camera models from 100 manufacturers and integrating with the most popular access control systems, Video Insight is a powerful,

yet easy to use open platform solution that delivers a comprehensive experience including an intuitive user interface, robust client options for Windows, Mac and mobile devices as well as its own built-in access control. The open architecture provides easy integration with surveillance workflow and smooth migration.

"Adding Video Insight to our existing line creates a complete single source offering for our customers, gives them the flexibility to choose the right solution for the right application, without worrying about compatibility issues, and protects their existing video surveillance

*continue on page 18*



and access control investments, ensuring a lower TCO” said Daniel Sultana, Group Manager, Security, Panasonic Australia.

### Key Functionality

Video Insight is the latest in surveillance technology, integrating powerful enterprise VMS features, hardware optimisation and cost efficiency in one robust system. The Video Insight VMS software broadens Panasonic’s surveillance recording and monitoring options and gives end users a true software based option to choose from when developing their security solutions architecture. Designed as a multi-viewer platform, Video Insight grants users the ability to monitor cameras remotely on various operating systems including platforms such as Windows, Mac, Web browsers, iOS and Android.

The single-management interface includes a full array

of enhanced enterprise-level surveillance features, including Video Wall, Health Monitor, Automated Failover, Active Directory LDAP, Access Control Integration and Software Development Kit (SDK). An advanced Guard Tour feature ensures operators perform scheduled security checks at stipulated times, and the Rules function provides automated functions to reduce operators’ workload.

Engineered as a pure 64-bit system, Video Insight maximises hardware capability resulting in increased efficiency across all system features. A key factor in hardware optimisation is Video Insight’s powerful capability to allow users up to 300 cameras per server with an unlimited number of web clients and storage size.

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

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## West Bend, Wisconsin, Upgrades to Opticom Emergency Pre-emption Solution

System provides priority to emergency vehicles at intersections for improvements in operational safety and response times

**S**t. Paul, Minnesota- Global Traffic Technologies, LLC (GTT) has contracted with the city of West Bend in Wisconsin to upgrade its traffic pre-emption solution to Opticom™, which works alongside intersection controllers to help ensure emergency vehicles can move through intersections rapidly and safely. When an emergency vehicle needs to navigate an intersection, the Opticom Emergency Vehicle Pre-emption (EVP) system on-board the emergency vehicle sends a request to the intersection’s controller ahead of its arrival, which turns the light green when possible, clearing a path to enable the vehicle’s safe passage. In West Bend, both Fire and Police vehicles are using the EVP system. It has been deployed to two of the city’s busiest intersections and 49 vehicles. There are plans to expand to further intersections in the future.



GTT’s president Doug Roberts said, “We are very pleased to be working with the city of West Bend and its emergency services. By equipping its emergency vehicles with Opticom equipment first, they are able to fully utilize the two intersections with the solution and then make strategic decisions about which additional corridors to equip as they expand. Opticom is helping to improve operational safety, reduce travel time to emergencies and increase the safety of both the public and emergency personnel.”

West Bend is the county seat of Washington County in Wisconsin and has a population in excess of 31,000 residents. The city was home to influential 20th century poet and educator Viola S. Wendt, and houses the University of Wisconsin–Washington County, and the Museum of Wisconsin Art.

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



## Curtains Come Down On Intersec 2017 After New Record In Exhibitor And Visitor Turnout

Dubai security showcase attracts 33,501 visitors from 129 countries, 1,304 exhibitors from 58 countries

**D**ubai, UAE- Global product launches, live demonstrations, new bilateral agreements, and updated UAE fire safety codes were among the many highlights that shared centre-stage, as the curtains came down on the world's leading trade show for security, safety, and fire protection.

Intersec 2017 concluded yesterday (24th January) at the Dubai International Convention and Exhibition, with a new record in exhibitor and visitor participation ensuring the three-day event wrapped up proceedings on an all-time high.

According to organiser Messe Frankfurt Middle East, Intersec 2017 attracted 33,501 visitors from 129 countries, as they sourced solutions and networked with 1,304 exhibitors from 58 countries spanning 56,300sqm of exhibition space.

The five per cent year-on-year growth in both visitor numbers and exhibition size underlined the international importance of the annual showcase, where more than 150 exhibitors launched products across the seven show sections of Commercial Security, Fire & Rescue, Safety & Health, Homeland Security & Policing, Information Security, Smart Home & Building Automation, and Physical & Perimeter Security.

“The Middle East commercial security, homeland security, and fire safety market continues to grow, and consequently there's a strong need for technological advancements in solutions in terms of features, specifications, and upgrades,” said Ahmed Pauwels, CEO of Messe Frankfurt Middle East. “In an industry that is constantly evolving, and where more and more projects are being released into the market, the need of the hour is to be present at the right time with the right solution.”

“With its wide spectrum of the latest safety and security solutions and varied range of cutting-edge products from leading international brands, Intersec plays a crucial role by putting global and local providers directly in touch with regional and international buyers.”

Intersec 2017 featured 17 of the world's top 20 security solutions providers, including Avigilon, a Canadian-based full solutions provider of video analytics, network video management solutions, surveillance cameras, and access control solutions.



Dave Dalleske, Vice President of EMEA Sales at Avigilon, spoke of the latest developments in Avigilon's Appearance Search video analytics technology, a sophisticated search engine that sorts through hours of footage to locate a specific person of interest across an entire site.

“For example, you have a situation where someone leaves an unintended bag in a public place,” he said. “That on its own is not all that intelligent. With Avigilon Appearance Search, you can take your video management system, see a bag, and identify the person that left it there, as it allows users to search all cameras across an entire site.”

“That's fine but what if that took place 20 minutes ago? The real question is where is that person now? Avigilon Appearance Search technology allows you to click on that individual and say not only where they are but where he or she came from, by identifying previous and last-known locations.”

“It enables you to complete an entire story and use that intelligent aspect of your system to assist in investigations with real time event response, and hopefully be able to prevent something potentially catastrophic from taking place,” added Dalleske.

Elsewhere, CP Plus, a global manufacturer of advanced security and surveillance solutions, launched Cosmic and Astra, two high definition (HD) cameras with Uni+ technology, offering compatibility across all previous and current technologies in CCTV surveillance.

Gaurav Khemka, Director of CP Plus commented on its mutually beneficial relationship with Intersec over

*continue on page 20*



the years: “Our association with Intersec spans many years now, and it goes without saying that it has always been a great platform to showcase our technologies and solutions,” said Khemka.

“Our presence over the years has given us numerous clients and we are appreciative of that. We look forward to continued association fuelled by a similar goal and mutual growth.”

Intersec is held under the patronage of His Highness Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum, and supported by the Dubai Civil Defence, the Dubai Police, and the Dubai Police Academy.

The Dubai Civil Defence had a major involvement in the 19th edition of the annual exhibition, where it announced the latest updates in the UAE Fire Protection and Life Safety Codes, along with several other major initiatives.

His Excellency Major General Rashid Thani Al Matrooshi, Director General of the Dubai Civil Defence, said: “At Intersec 2017, we’re showcasing three key initiatives; the first is the floating firefighting systems for water bodies that are used by the Civil Defence and Marine Rescue sectors.

“The second is the Dolphin, a firefighting system that incorporates a jetski and a jetpack that will allow Civil Defence to tackle blazes from the water. These are in addition to the smart services working with a dashboard system to collect data from all the centres in Dubai and delivering it to the decision makers to apply it in their daily actions.”

The Dubai Civil Defence also signed an MOU with 911 Challenge Events Management, to jointly organise and host the 1st GCC Firefighters Challenge Championship 2018 in Dubai. The initiative is in line with the vision of UAE’s leadership that aims to innovate and modernize all sectors and areas, including safety and security.

The 1st GCC Firefighters Challenge Championship 2018 aims to promote the competitive spirit among



civil defence individuals and the public, as well as to empower firefighters and rescuers to further develop their competences and be ready to face challenges and overcome risk factors to protect lives of individuals and their properties.

With 83 per cent of exhibitors based outside of the UAE, Intersec’s international participation was spearheaded by a 10 per cent year-on-year increase in exhibitors from Germany and the UK, as 82 German companies (64 pavilion and 18 standalone exhibitors) lined-up alongside 143 British companies (86 pavilion and 57 standalone exhibitors).

Adam Thomas, Spokesman for the UK Department for International Trade’s Defence and Security Organisation said: “Intersec 2017 was an excellent opportunity for UK companies to profile their capabilities in the fire and security sector and identify joint venture partnerships.

“It also provided a valuable opportunity for UK companies to network with companies in the UAE and across the world. We were delighted to have the opportunity to launch the UK Fire Resilience Offer and express our aspirations to continue to work with the Dubai Civil Authorities.”

Key features at Intersec 2017 included an Outdoor Demo Area & Drone Zone, a Jobs & Careers Pavilion, the Techtextil Pavilion, a Safety Design in Buildings Pavilion, and a Smart Home and Building Automation Pavilion.

A three-day conference programme meanwhile was spearheaded by the Fire Safety Conference on 22nd January, and the Security Industry Regulatory Agency (SIRA) Forum on 24th January, where details about Dubai’s new Regulation of Security Industry Law was provided. The 20th edition of Intersec returns from 21-23 January 2018.

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



## IPSecurityCenter™ to Help Protect Citizens at the U.S. Presidential Inauguration

**C**NL Software, a world leader in Physical Security Information Management (PSIM) software, is pleased to announce that its award-winning technology will be utilized as part of the multi-agency security program at the 2017 Presidential Inauguration. The company's IPSecurityCenter PSIM solution is deployed in Washington, DC to help secure the city, keep its transportation facilities and networks operational and the people that rely on them safe, as well as to make sense of the huge volume of data and video intelligence generated during inaugural activities. IPSecurityCenter will be used to help ensure inaugural events run smoothly.

Event security agencies are responsible for the safety of the public, security and law enforcement and counterterrorism activities during what may be the most dynamic threat environment in history of the U.S.

“The swearing-in of a new President is a momentous occasion in our nation’s capital, and we will see huge numbers of people coming from across and beyond the U.S. to witness the Inauguration. As with all major events, security is a huge concern” comments Mike Mostow, General Manager at CNL Software Americas. “IPSecurityCenter is deployed in Washington, DC, providing real-time situational awareness and decision support to security and law enforcement personnel during large scale special security events like the Inauguration. One of IPSecurityCenter’s key capabilities

is allowing multi-level collaboration between and across the various safety, security, law enforcement and emergency management agencies working to protect the President and others attending inaugural activities, its spectators, and the wider public.”

“Aside from the threat of a major incident, there are more frequent public safety and security incidents to consider. From monitoring crowds and the accurate and early detection of incidents, to enabling rapid post event forensics, IPSecurityCenter offers comprehensive situational awareness and intelligence to bolster security. Having more digital eyes on the ground becomes a force multiplier to help identify and resolve security incidents faster and more incisively.”

IPSecurityCenter PSIM is deployed in some of the largest public security programs today in global cities supporting the safety and security of citizens, visitors, commerce and infrastructure. IPSecurityCenter PSIM allows the intelligent integration of the widest range of security and homeland defense technologies such as video surveillance and analytics, facial recognition, license plate recognition, crowd monitoring, gunshot detection, chemical, biological, radiological/nuclear and explosives detection, geospatial mapping and asset tracking.

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

## Abloy Uk Supplies Scottishpower With A Fire, Escape & Security Solution

**A**bloy UK has supplied ScottishPower with a compliant fire door solution to secure their Battery Rooms without compromising on health, safety or aesthetics. ScottishPower is part of the Iberdrola Group, a global energy company and world leader in wind energy. They operate in the generation, transmission and distribution of electricity, energy management and supply of gas and electricity in the UK.

ScottishPower required a number of fire doors across four sites with a fire-resistance rating used as part of a passive fire protection system, with the aim of reducing the spread of fire and enabling safe egress from a building.

The main priority was maintaining the safety of staff and it was also important for the doors to be aesthetically pleasing due to the age of the sites. Furthermore, it was imperative that the locking elements of the hardware were fire-rated in order for the doors and hardware to both be able to withstand a fire.

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Abloy UK's range of steel fire doors come with a non-combustible core, include single and double leaf configurations and can be certified latched or unlatched depending on size and configuration. The doors are tested to BS 476 Part 22 and EN 1634-1:2008, as well as being Certifire compliant and therefore regularly audited and approved to ensure continued conformity.

The Abloy Door range comprises of a comprehensive range of pre-engineered Steel and Timber security door sets specifically designed for either internal or external use on a variety of building applications. The Security Series range of doors has been designed to meet the needs of a broad spectrum of security requirements.

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



## Veracity Acquisition Of Icomply Delivers True End-To-End Security System Integration For Command & Control

**A**greement expands portfolio of innovative, independent, security system solutions with flexible integration within surveillance, alarm receiving, incident control, reporting, building management and other applications.

Prestwick- Veracity, a leading provider of innovative, intelligent solutions that solve real-world IP video challenges in transmission, storage and display, has announced the full acquisition of icomply (I-Comply Ltd), the UK's leading software provider of integrated command and control security solutions. The agreement includes all operational staff, software, intellectual property, ongoing business and also icomply's sales and support subsidiary in India. Veracity will maintain icomply as a separate business and will immediately expand its operations including an imminent move to larger premises near Leeds.

The modular software solution supports a range of access control,

CCTV, fire, alarm and other security equipment vendors, including industry leaders such as Veracity, Bosch, Honeywell, Paxton, Axis, Hanwha Techwin and Milestone. With icomply, customers can build control centre environments that have greater situational awareness with integrated functionality to seamlessly deliver incident management and more effective command and control processes.

At the heart of icomply's VTAS Pro software solution is an advanced modular integration platform that gives operators flexible and immediate control over complex surveillance and security functions, including visual information received from IP and deployable CCTV cameras combined with interactive maps and incident management. VTAS Pro allows for complex workflows to be dynamically processed with a high degree of automation to allow information to be shared with the correct team members even in the most challenging environments.

VTAS Pro modular components also include alarm receiving, dispatch, guard tour, incident management, asset tracking and lone worker – all of which are integrated within an advanced management reporting engine to ensure compliance with regulatory, best practice and audit requirements.

Veracity have made a long term commitment to expanding the icomply framework to include a wider range of vendors and technologies as well as enabling Veracity channel partners to deliver fully integrated end-to-end solutions. Veracity will also utilise its innovative technologies within VTAS Pro including its COLDSTORE Surveillance Storage System and TRINITY, a unique system architecture that eliminates NVR servers by allowing IP cameras to record directly to COLDSTORE disk arrays.

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



## Zenitel Group names new VP of Sales for North America

**K**ansas City, Mo- Vingtor-Stentofon by Zenitel Group, the leader in critical communication solutions for the security industry, announced today a new Vice President of Sales for its North American Division.

“Our innovations in 2016 demonstrate our continued commitment. Because of our focus on the future and our growth, we have moved to strengthen our core by promoting one of our Regional Sales Leaders, Peter Sandin, to Vice President of Sales” said Jim Hoffpauir, President of Zenitel USA.

Sandin has been in the security industry since 1988 with a track record of leadership within technology vendors, an integrator and a manufacturer’s representative. Since joining Zenitel in 2010, he has built a strong regional presence in the Northeast by developing trusted relationships with clients, consultants, integrators and manufacturer’s reps.

“Peter has been a leader to his peers contributing valuable insights on the application of critical communication technology to risk mitigation as well as the optimization of critical business processes”, said Hoffpauir.

“Zenitel’s history of innovation and its core values that act as a foundation for developing a high-performance culture, has been instrumental to my growth as a professional and as a leader”, said Sandin. “I have inherited a first-class team and a thriving integration channel that is well suited to taking our clients to the next level of performance. We have the best value proposition in the industry because we, alone, can meet the standard of performance needed by risk, resilience and security professionals. The scorecard of intelligibility, interoperability and the key ‘ilities’ needed by any mission critical IT solution; availability, reliability, scalability, maintainability and defensibility will continue to be our focus.”

For more information, please visit [www.zenitel.com](http://www.zenitel.com). **SS7**



Peter Sandin (middle) is congratulated on his new position by Jim Hoffpauir, President of Zenitel USA (left) and Kenneth Dástøl, CEO Zenitel (right)

## Panasonic Toughbook unveils world-first 20-inch 4K Tablet

**S**ydney- Panasonic Toughbook has unveiled its unique 20-inch 4K tablet, designed for CAD applications, technical services, healthcare, photography, pro video productions and high-end retail. The FZ-Y1 Toughpad has the ability to transform the way industry professionals work, making it even easier to create, edit and transport drawings, images and videos on a tablet PC in stunning Ultra HD 4K resolution.

Stuart Buxton, Senior Product Manager, Toughbook, Panasonic, said: “We’re seeing businesses across various industries demanding higher standards in picture quality at work and at



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home. From the living room to the boardroom, 4K is a defining standard for digital content and the new FZ-Y1 Toughpad device delivers high-impact 4K presentations wherever you need them – from the showroom floor to the broadcast suite.”

The new 4K tablet allows instant and detailed review of images or video footage.

The Panasonic FZ-Y1 tablet provides the performance of a desktop with an Intel® Core™ i5-5300U vPro™ Processor, HDMI 2.0 input, Windows® 10 Pro and a 256 GB SSD.

**Panasonic Toughpad FZ-Y1: Key features**

The Toughpad’s HDMI 2.0 input enables the device to be turned into a field monitor for applications such as broadcast. With business ports and wireless connectivity - USB 3.0, Intel® Wi-Fi 802.11 a/b/g/n/ac, Bluetooth 4.0 (class 1), Ethernet and Mini DisplayPort™ output – users are always connected and able to collaborate. The lightweight, business-rugged 4K tablet is built to handle a 76 cm drop to its back while operating, and 30 cm drops to 26 angles when non operational, helping to avoid downtime and deliver a better total cost of ownership for businesses.

**Key Specifications:**

- 4K Ultra HD tablet (3840 x 2560) with 15:10 aspect ratio



- Windows 10 Professional
- Intel® Core™ i5-5300U vPro™ Processor
- Intel® HD Graphics 5500
- 20-inch tablet that weighs 2.41kg and is 12.5mm thin
- IPS capacitive display with 10-point multi-touch
- Accurate and lifelike imagery with 16.8 million colours
- 256GB SSD and 8GB RAM
- Built-in LAN port, HDMI 2.0 input (supports 4K) and MiniDisplayPort
- Optional cradle with 1x LAN, 1x HDMI output and 3x USB 3.0
- Bluetooth 4.1 and WiFi 802.11 a/b/g/n/ac wireless connectivity
- HD (720p) Front Web Camera

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



## Great Variety Of Security And Fire Technology At Securex 2017!

**M**aintaining its promise to bring the latest security and fire technology and service innovations to the local market, Securex 2017 has an exciting lineup of exhibitor offerings. Being held from 30 May to 1 June at Gallagher Convention Centre in Midrand, Securex is undoubtedly Africa's largest security and fire exhibition.

"With almost 25 years' of bringing leading-edge solutions to the market, Securex is the go-to event for anyone involved in residential and commercial security," says Joshua Low, Securex Event Director at Specialised Exhibitions.

### Trending technology and services

Nocturna, specialising in infrared night vision products, will be introducing its latest handheld night vision range. Anviz's SecurityONE is an integration solution designed for small and medium-sized enterprises, incorporating access control, video surveillance and alarm monitoring. Econz Wireless' wireless timecard GPS with new features to prevent time and attendance fraud by mobile workers, will be available at Securex. Features include 'Alert Supervisor when GPS is turned off' and the ability by the mobile device user to only Clock-in/Out within 100 to 200 m of the job/store/customer GPS coordinates to ensure accurate location.

Mitsubishi Electric will display their 70 Series LED, DLP Seamless video wall cubes. The centrepiece of this projection technology is an integrated, ultra-modern DLPTM chip. The Smart 7 concept design for LED video wall cubes allows for a wide, intensive colour spectrum, optimum energy efficiency with the lowest power consumption and BTU figures in the world and an average service life of 10 years. A live environment setup will be available where visitors can interact with the solutions in real time.

Dahua will showcase its cutting-edge products and video surveillance solutions, including unmanned aerial vehicle, smart building, car parking, mobile and retail solutions.

SALTO's JustIN mobile technology makes it easy and secure to incorporate smartphones as a part of an access control solution. SALTO Mobile means the end of lost key hassles, expenses and waste. The company will also promote its long range identification solution which automatically identifies user flows in any weather conditions without having to present the card on the



Dahua display and control

reader. The product is suitable for car parks, traffic management, free flowing vehicle access control and convenience in general as the carrier is read at a certain distance.

PicoTech's new Kwêbeam outdoor early warning system has been designed with a strong focus on ease of operation, reliable 2-way wireless communication with built-in repeater functionality and operation on the less congested 868 MHz frequency band. There is an effective built-in siren in all passive beams, and the system is completely wireless, operating on standard AA alkaline batteries for years.

Quantum Design and Engineering (QDE) will exhibit its locally designed and manufactured pepper gas alarm system: PROTECTO. This alarm system comes with optional GSM and Modbus capabilities. As the intruder will not be able to enter the premises after the gas has sprayed, assets will be protected against theft and vandalism. QDE will also launch its GSM PROTECTO Commander at the show: a two-input unit, available at Securex at a special launch price.

ProvisionISR brand from Hi-Tek Security offers 4K technology (H.265) in its 4 and 5 MP IP cameras and NVRs. This technology enhances video quality, and even with increased compression rates, uses up to 50% less storage space, 50% less bandwidth and 50% lower bitrate. The company is also promoting reliable analytics and POS solutions allowing easy integration with IP and AHD technology. The new powerful operating system OSSIA offers an easy interface, new web interface and App.

New Teltron's range of HID Fargo PVC card printers and consumables, from the current low entry level model to the industrial model, as well as consumables, will be on show.

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Business Process Optimiser (BPO) is an ERP system developed by CO3 Technologies and was specifically adapted and improved for the electronic security and telecommunications industries. This system has an in built interface to Pastel Evolution. All transactions are posted to the Pastel ledger in real time.

Duxbury Networking will highlight future-ready security solutions for physical and virtual networks. Under the spotlight will be a range of offerings designed to promote proactive security capable of adding significantly to the strength and viability of the corporate network infrastructure. Duxbury Networking will unveil new additions to its security armoury, including network access control, security information management, and other leading-edge offerings that provide a holistic view of enterprise security.

DJP Technologies is at the forefront of new technology enabling the company to provide the latest innovations in the security, drone and IT markets, from its YesTelecom router bundles through its drone packages that provide unsurpassed quality visual information from the skies, to its professional binding equipment.

A new hi-tech but very affordable mini dome and bullet range from GeoVision SA will be on display for the visitors to view and play with. Other products making a debut include a facial recognition reader, long-range tag reader (RU9003), IP covert fish eye and the PPTZ.

Frank Street will be exhibiting the latest Milesight and Luxriot EVO product ranges as well as its own spy camera range. Milesight will introduce the Milesight PTZ bullet camera, a first of its kind, and the all-new 9/16/32CH PoE NVRs, as well as a high-speed dome camera. Luxriot Evo Global surveillance ecosystem solution not only offers 64-bit speed and all the necessary tools for setting up an absolute situational alertness system rapid response to events, but also introduces a central server governance hierarchy of all the components. Frank Street will give away a 16ch Luxriot EVO license each day at Securex.



Genesis K9 Group dog training in progress



DJP drone

Clients simply need to register for the company's weekly emails to be entered into the draw.

Genesis K9 Group (GK9) is a SASSETA registered training facility that specialises in the training of dog handlers, and especially the training of detection dogs. At Securex 2017 the company is hosting a stand with information on all the different dogs they train and can provide. This includes but is not limited to detection dogs (narcotics, explosives and other substances) tracking dogs, patrol dogs and multi-purpose dogs. The company will also provide information on training of security guards as dog handlers and all the relevant legislation surrounding dog handlers and the application of dogs and dog teams.

In addition, GK9 is also a PSiRA-registered security provider specialising in providing dog handlers, guards and the leasing of trained. GK9 will also conduct live displays, demonstrating the practical application of these dogs throughout the duration of the show.

Popular visitor attractions at Securex 2017 will include the New Products Display, the Securex Seminar Theatre brought to you by Hi-Tech Security Solutions, the FPASA InFIREs Seminar, the ESDA breakfast and the SAIDSA Techman Competition. New to Securex 2017 is the launch of a technical training component. Two morning and two afternoon sessions covering various topics such as Surveillance for the entrepreneur (targeting end users and installers), IP surveillance and remote deployment (targeting entrepreneurs), Storage know-how (targeting installers), and IP convergence possibilities and solutions in industry (targeting installers and end users), have been scheduled.

Underlining the exhibition's credibility is the endorsement by several recognised industry associations and institutions that include ESDA, FFETA, FPASA, PSIRA, SAIDSA, SANSEA, SASA and SIA.

For more information, please visit [www.securex.co.za](http://www.securex.co.za). SST



## LILIN Highlights Extensive Line of IP Video Cameras at MIPS 2017

**A**rcadia, CA- Setting a new benchmark for value and performance, LILIN Americas announced today that it will be showcasing its comprehensive line of IP cameras at the Milestone Integration Platform Symposium 2017 (MIPS) scheduled for February 13-17 in San Antonio, TX. With advanced IR illumination and built-in analytics capabilities, LILIN IP cameras set the standard in multiple surveillance categories.



Models on exhibit include the ZR8022EX20, LILIN's best-selling 2MP outdoor bullet IP camera with 20x optical zoom that incorporates numerous enhancements to make installation easier, faster and more cost-effective for security contractors and integrators. Intelligent Video Surveillance Analytics (IVS) are built-in offering advanced motion detection with programming to be added into commercial and home automation projects.

Also on display at MIPS is the IRS1304 30X optical zoom PTZ camera with Adaptive IR LEDs capable of illuminating a subject up to 450 feet away in almost complete darkness. Designed to address the most popular video surveillance applications and specifications, the IRS1304 builds upon LILIN's commitment to providing clear, detailed video clarity at night time for round-the-clock protection. One of the qualities that sets LILIN apart from the pack is its depth and variety of its cameras. For example, at MIPS LILIN will demonstrate its ultra high-speed SR7424EX3 camera featuring a blazingly fast frame rate of 60 FPS at 2-megapixel-1080P resolutions, making it ideal for capturing moving cars in Intelligent Traffic Systems. For marine environments, the company has introduced its new IPC0422E4 IR turret camera with a SUS316 rated stainless steel housing for corrosion resistance and withstanding large temperature variations. Observational and situational awareness tasks offshore and on-board vessels, industrial process monitoring, and marine sciences are among its many uses.

Built on LILIN's high performance IP imaging platform, the value priced MR832 fixed lens bullet camera and MR312 indoor 3-axis dome camera make it easy to achieve professional-grade video surveillance on a budget.

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

## Pelco Showcases Strategic Surveillance Solutions at Intersec 2017 Advanced VMS and Imaging Solutions Displayed for Oil/Gas, City Surveillance and Hospitality Markets

**D**ubai, UAE- Pelco by Schneider Electric, a global leader in surveillance and security products and technologies, is showcasing several of its latest solutions designed to address the challenges of vertical markets in the Middle East region at Intersec 2017. From the company's powerful open platform VMS control and integration platform to explosion-proof HD cameras and new advancements in IP megapixel imaging, visitors to the Pelco booth (Stand #K24, Hall S1) will find the specific solutions they need to best secure their unique environments.

"Whether the market is the Middle East or the densely populated municipalities across Europe or North America, Pelco offers technology innovations and application solutions that deliver higher levels of protection" said Diane Feliciano, VP, Global Marketing, Pelco.

Pelco's Intersec 2017 display focuses on solutions for the oil and gas, city surveillance and hospitality vertical markets, and includes the following highlighted products:

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VideoXpert™ Video Management Software (VMS) dramatically improves the control of integrated surveillance and security solutions on a single platform. VideoXpert's open architecture enables third-party applications to be cost-effectively integrated for highly specialized applications in markets. Recent enhancements to VideoXpert include: a unified user interface for improved centralized system management; incident management to easily and quickly correlate related video files; improved event management to customize event alerts with real-time visual notification; immersive viewing of 180°, 270° and 360° panoramic images from Pelco Optera Cameras; and much more.

Sarix™ Enhanced IP Cameras combine the best in low-light technology with superior bandwidth compression. Pelco's exclusive SureVision 3.0 low-light technology makes these cameras ideal for city surveillance, delivering quality images in as little as 0.05 lux with an

incredible Wide Dynamic Range (WDR) of 130dB. Pelco's innovative Smart Compression Technology reduces bandwidth and storage requirements to improve system throughput and lower overall Total Cost of Ownership (TCO). Sarix Enhanced cameras are ONVIF Q compliant and are available in a wide selection of form factors.

ExSite™ Enhanced HD Cameras are explosion proof and virtually indestructible with performance features that include: a robotically welded housing for use in extreme conditions; a unique patent-pending pan-tilt drive system devoid of belts, gears or pulleys; operation in extreme temperatures; 30X optical zoom with image stabilization; IR illumination; 130dB WDR; 0.03 lux ultra-low light performance; integrated Ethernet, fiber, Ethernet over Coax (EoC) and Unshielded Twisted Pair (UTP) transmission, and more.

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

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## Viakoo's Automated Surveillance and Access Data Verification Solution Delivers RMR for Integrators

### Proactive Service Boosts Integrators' Bottom Line While Ensuring Maximum Efficiency

**M**ountain View, CA— Security integrators looking to grow their ever-important recurring monthly revenue (RMR) can capitalize on a new proactive and profitable service offering by adding Viakoo's unique Automated Data Verification Solution. Viakoo's award-winning and patented solution – which is field proven at numerous organizations with over 100 million hours of surveillance supported – improves integrators' service efficiency by up to 40 percent.

“Viakoo's Data Verification Solution provides security integrators with an easy way to generate a new source of RMR, while improving their ability to ensure the integrity and reliability of their customers' systems,” said Bud Broomhead, Chief Executive Officer, Viakoo. “Security integrators are being driven by the market to upgrade from reactive service to proactive service, and our solution enables them to fully capitalize on this trend.”

Viakoo runs advanced system analytics to provide early problem detection, scientific diagnosis, and recommended courses of action to ensure that surveillance and access control system operations are fully documented and in continuous compliance. The Viakoo multi-client platform can be accessed remotely by authorized personnel, from their smartphone or PC. Combined with Viakoo's experienced technical support team, Viakoo subscribers have all the resources they need to effectively detect, diagnose and solve surveillance and access control system issues from anywhere 24/7.

Viakoo will be at ISC West 2017, April 5-7 in Las Vegas, NV (Booth #32099); integrators can demo the Viakoo solution immediately by visiting [www.viakoo.com/start](http://www.viakoo.com/start).

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



# Honeywell Helps Bhubaneswar Boost Security With City-Wide Surveillance System

Honeywell technologies a key enabler in making Bhubaneswar a smart city

**N**ew Delhi- Honeywell announced that it is helping Odisha Police with a citywide surveillance system that helps boost security, prevent crimes, maintain law and order, and control traffic in the state's capital city. The quality of the city's security is exemplified by Bhubaneswar's recent win at the World Smart City Awards. The recognition from the Smart City Expo World Congress is a testimony of Bhubaneswar's transformation by adopting cutting-edge technology for resolving urban challenges.



The Honeywell project provides 28 strategic locations in the city with 114 integrated closed-circuit televisions and automatic number plate reading cameras using a command and control system that provides a common operating picture, interactive control, event correlation, and mobile van surveillance in the Police Commissionerate headquarters.

“We are happy to work with Odisha Police to support their progressive approach to smart safety in the city. At Honeywell, our continued focus is on making cities smarter, safer, and more secure, in support of India's 100 Smart Cities vision. We are proud that our expertise is helping our partners and are delighted that Bhubaneswar has been recognized by Smart City Expo World Congress for its tremendous efforts,” said Aseem Joshi, regional general manager of Honeywell Building Solutions in India.

For better situational awareness, mobile cameras and digital video recorders have been installed on 33 police vans. These cameras transmit recordings at a pre-determined frequency to the command centres. The cameras are designed to withstand high day-time temperatures. Red-light violation detection systems and advanced video analytics help alert police about traffic violations and enable prompt incident management.

Honeywell is uniquely positioned with the broadest technology solutions portfolio to support India's 100 Smart Cities vision. It is already working on projects in Aurangabad in Maharashtra, an 11-city project in Madhya Pradesh, including a successful Ujjain Simhastha Kumbh event.

For more information, please visit [www.honeywell.com/worldwide/india/india-en](http://www.honeywell.com/worldwide/india/india-en). *SST*



## Partnership expanded: Bosch enhances integration of its Building Integration System software with Milestone to include all XProtect versions

The co-operation between Bosch and Milestone Systems has been further expanded. Building on the already strong base of the complete video integration between Bosch and Milestone, the partnership has been deepened to now cover all Milestone XProtect video management software (VMS) editions into the Bosch software “Building Integration System (BIS)”.

This integration enables solutions that combine several building management functions on a single platform, like alarm and security management. Thanks to the integration of BIS with XProtect, in case of fire or intrusion the relevant video cameras will be activated automatically. An alarm coming from a detector connected to the BIS server triggers the camera of the scene to the XProtect client for alarm verification. The operator can then zoom in for details and further investigate the scene with more cameras before responding to the alarm.



To further enhance security, the functionality of XProtect itself is monitored continuously. The BIS alarm management function will automatically report if there is a problem with the XProtect server or if there is no more free memory to store video images.

The video management software from Milestone already supports the Bosch Access Professional Edition (APE). Access Professional Edition is an easy to use software for controlling access to small- and medium-sized enterprises with high-security requirements. With the combination of APE and Milestone XProtect, security operators control and monitor all Bosch access devices through XProtect. It covers integrated alarm management, video verification, door handling and event viewing from one user interface. This server-based access-control solution ensures proper search functions and grouping capabilities for more effective cardholder management.

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

Do you have news for us?

**Good!** Email us at [sst@tradelinkmedia.com.sg](mailto:sst@tradelinkmedia.com.sg)





## Trans-Asia Communications & Electronics Appoints New Marketing Director

**S**ingapore- Trans-Asia Communications & Electronics has announced Mr Lim Towsoon as the new Marketing Director of the communications company effective from 1st January 2017. He will be solely responsible for the Sales and Marketing Division, handling both the Analog and Digital Two-Way Radio communications sales as well as installations of special systems in the Republic of Singapore.

There are 30 000 present day users that have been licensed by the IDA. They are using approximately 368 000 units of type-approved Two-Way Radio Communications equipment in this country.

Trans-Asia is committed to providing for the growing sense of security from the Public and Law enforcement agencies here. In distributing new high-quality Two-Way Radio equipment from Motorola, Kenwood, ECOM and ENTEL, Trans-Asia contributes greatly to the security market in Singapore. Services provided include complete installations of all types of Two-Way Radio Systems-Base stations, Mobile Systems and Repeater Systems.

Additionally, Trans-Asia offers complete installation

of specialised Antenna and cable systems to enhance and upgrade in-building communications system and engineering and planning services for battery power requirements, UPS systems and Emergency-Explosion-Proof lighting equipment projects. The company provides site inspection and evaluation upon request. Aside from service and maintenance, they pick up and deliver from facilities and provide quality replacement of parts of original equipment.

Trans Asia is a dedicated distributor for specialised users through a worldwide network of quality equipment suppliers. Equipment supplied include: Motorola Two Way Radio Communications equipment, accessories and spare parts, David Clark's line of Headsets and related aviation and marine communications intercom systems, Motorola's and Nokia's complete line of Intrinsically-Safe Explosion-Proof Two-Way Radio Equipment, GSM Cellular Handphone products, a quality line of Encryption products, audio accessories and after-market high quality portable batteries.

For more information, please e-mail [gillmon@singnet.com.sg](mailto:gillmon@singnet.com.sg). **SS7**

## Advantech and Matrox® Expand Relationship for Video Wall Solutions Matrox C-Series Graphics Cards Validated for Use in DS-980 Six-Display System

**T**aipei, TW & Montreal, CA —Advantech (2395.TW), a leading embedded computing solution provider across multiple market verticals, today announced the expansion of their technology relationship with Matrox® Graphics, a leader in the field of video wall and multi-display solutions. Validated to work with Matrox's C-Series™ multi-display video cards, Advantech's latest video wall solution, the DS-980 six-display system offers the sophisticated 4K content that users demand.

The DS-980 streams up to six displays and delivers advanced high-resolution, up to 4096x2160, true 4K content powered by 6th Gen. Intel® i7/i5/i3/ Celeron rPGA processors and integrated Intel HD Graphics. With four of its graphics outputs powered by Matrox's C420 graphics card, the DS-980 six-display signage solution enables system integrators to create video wall solutions with faster video streaming, ultra stability, and flexibility for a wide range of enterprise, industrial, digital signage, security, and control rooms applications.

Matrox C-Series multi-display video cards have been designed to ensure excellent reliability, stability, and ease of deployment, adding outstanding performance ideal for demanding commercial and critical systems.

*continue on page 32*



“We’ve just concluded a test of the Matrox C420, in combination with our newest DS-980 platform, and we’re very happy with the results. This high-quality product supports up to 6 monitors and can function as a video wall, all at a very competitive price,” said Jeroen Baerents, Business Development Manager of Advantech Europe. “Collaboration with Matrox, a highly valued and recognized player in the signage market, is an important step for us into the video wall market. We expect to test more solutions from Matrox in the near future.”

“Matrox products offer tried and tested advantages such as flexibility, interoperability, and reliability. The four-output Matrox C420 card is a high-performance addition to any system and with the Advantech DS-980 we’re putting more processing power into the hands of many more customers,” said Cecilia Wills, UK Country Manager, Matrox. “This validation expands a history of successful cooperation between Matrox and Advantech beyond our existing relationship—the AVS series of Advantech video wall controllers based on Matrox Mura capture cards.”

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

## Trend Micro TippingPoint Named a Leader in 2017 Gartner Magic Quadrant for Intrusion Detection and Prevention Systems

**S**ingapore- Trend Micro Incorporated (TYO: 4704; TSE: 4704), a global leader in cybersecurity solutions, today announced it has been positioned as a leader in Gartner, Inc.’s Magic Quadrant for Intrusion Detection and Prevention Systems (IDPS) [1]. Trend Micro (formerly listed as HPE) significantly improved its placement in both ‘completeness of vision’ and ‘ability to execute’ from previous years. Trend Micro believes placement of the TippingPoint Next-Generation Intrusion Prevention System (NGIPS) in the Leaders quadrant illustrates the positive progress made since acquiring TippingPoint in March 2016.

“Our acquisition of TippingPoint was designed to strategically advance the capabilities of our solutions to meet the needs of our customers faced with the growing complexity of protecting their enterprise networks,” said Kevin Simzer, executive vice president, sales, marketing and business development for Trend Micro. “We believe that being named a leader in the Magic Quadrant reflects the hard work we’ve done and our commitment and long-term vision for comprehensive network security.”

Don Closser, vice president and general manager for Trend Micro TippingPoint said, “Our teams came together over the past year to fully integrate Trend Micro Deep Discovery/Advanced Threat Protection with TippingPoint Next-Generation IPS. I believe this successful combination strengthened our overall product offering to solidify our Leader placement in this

year’s Magic Quadrant.”

The TippingPoint NGIPS offers in-line comprehensive threat protection against advanced and evasive targeted attacks across data centers and distributed enterprise networks. It offers in-depth analysis of network traffic for comprehensive contextual awareness, visibility and agility necessary to keep pace with today’s dynamic threat landscape. Powered by security intelligence from TippingPoint Digital Vaccine® Labs (DVLabs) and the Zero Day Initiative vulnerability bounty program, the TippingPoint NGIPS provides accurate, preemptive threat prevention in real-time without affecting network performance.

Frank Bunton, chief information security officer for MedImpact Healthcare said “The company’s decades of cybersecurity solutions experience was evident by the clear vision they laid out to integrate the TippingPoint technology into their existing security infrastructure and to build a positive security posture across our business – on endpoints, servers and networks.”

To download the full Gartner Magic Quadrant for Intrusion Detection and Prevention Systems report, please visit <http://www.trendmicro.com/us/business/cyber-security/gartner-idps-report/>.

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



## IFSEC Southeast Asia thanks the BSIA for its continuous support over the last 5 years

**I**FSEC Southeast Asia, the most prominent security industry event in the ASEAN region, would like to take this opportunity to say a huge thank you to the BSIA team for their continued and invaluable support over the last 5 years. IFSEC South East Asia is a highly successful extension of the world leading IFSEC brand and provides UK security suppliers with a unique opportunity to meet with new and existing customers from the region.

IFSEC Southeast Asia provides vendors with the chance to meet with over 10,000 customers from over 51 countries, all under one roof, where the concentration is firmly focused on security and fire safety. It is the perfect place to showcase your products face to face with the entire buying chain, with 86% of all visitors empowered with purchase making authority.

A blend of leading UK security and fire safety companies will come together for a dedicated UK Pavilion showcasing the latest products on offer as well as the expertise and innovation associated with the UK's security and fire industries. Participating companies include world leaders in their fields such as Apollo Fire Detectors, Cova Security Gates, FFE, HAES Systems and TDSI.

IFSEC Southeast Asia will next take place 6 - 8 September 2017 at the Kuala Lumpur Convention Centre.

Darren Wood of BSIA also said "I am pleased to say the BSIA, as a Trade Challenge Partner (TCP), will once

again be supporting IFSEC SE Asia in Kuala Lumpur and facilitating a UK Pavilion. The exhibition is the 'must do' exhibition for companies looking to export to and do business in the ASEAN region. In its 5th year, the show is growing year on year and fast gaining a reputation as the show to exhibit and to meet serious buyers and specifiers from across the region from both the private and public sector.

The ASEAN infrastructure market has huge potential for U.K businesses. ASEAN government's top priority is the regions infrastructure, with planned expansion and development of urban, intercity and high-speed rail systems, new airports, ports, water and power developments.

The ASEAN region boasts three of the world's top 10 most rapidly growing construction economies, each estimated to continue growing between 6 - 9% a year, and with recent government reforms across the region, it is a very attractive destination for U.K companies to do business in.

If you are an FIA or BSIA member and would like to find out more information about the event and if you are interested in exhibiting, please contact Darren Woods - d.wood@bsia.co.uk.

**For more information, please visit [www.ifsec.events/sea](http://www.ifsec.events/sea). *EST***

## Bosch Security Systems And Sony Establish Partnership For Their Video Security Business

Grasbrunn, Germany / Tokyo, Japan - Bosch Security Systems and Sony Corporation signed a contract to establish a business partnership to collaborate in the development of innovative products and solutions in the field of video security applications. Effective from the beginning of 2017, the two companies aim to combine their technological expertise to set new standards in high-resolution and low light video imaging. As part of the agreed partnership, Sony's video security customers in all markets except Japan will be served and supported by the sales and marketing organization of Bosch Security Systems. The partnership is subject to approval by the antitrust authorities.

Within the scope of the partnership, Sony will bring its leading expertise in video image quality and performance, while Bosch will add an extensive set of robust video analytics at the edge to interpret data as well as innovative technologies to achieve highly efficient bitrates and minimum storage requirements. "This unique partnership also supports Bosch's vision concerning the Internet of things. Video security cameras and more specifically the data they are collecting play an important role in the further development of the Internet of things. The video cameras might be called as 'the eyes of the internet of things'," says Gert van Iperen, President of Bosch Security Systems.

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Sony's video security customers will be served and supported by a dedicated sales and marketing team within the Bosch Security Systems organization, offering customer support, after-sales service and training in different languages in over 50 countries worldwide.

"The global Bosch Security Systems organization will support the dedicated sales and marketing team

responsible for Sony-branded products as well as Sony's customers to grow the business by excellent support and service," van Iperen says. Sony will continue to develop and manufacture its video security products under its brand.

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

## Surveon Upgrades Hospital Security with Complete Solutions

New Taipei City, Taiwan – Security in and around the healthcare institution is always a major concern due to the open nature of these places and the sensitivity of hospital operations. To protect the staff, patients, visitors, as well as the assets in many areas in the hospital, the security requirements are much more stringent than those in regular surveillance applications.

Surveon offers complete healthcare solutions, including high-resolution cameras, enterprise hardware RAID NVR as well as enterprise VMS with real-time VA to detect forbidden areas like patient rooms, protecting the patients and staff from potential risks in time.

Due to the open nature of healthcare institutions, even experienced system integrators might encounter some challenges in some areas like patient rooms, supply rooms or medicine pick-up counter, where it needs much more stringent monitoring than regular surveillance applications. With the smart image optimizers, Surveon cameras can analyze lighting changes and automatically adjust the image functions to ensure clarity can be obtained under different lightings. Moreover, Surveon dome cameras support audio in/out with phone jacks, providing



hospital an easy way to record and manage the conflicts or disputes in the emergency room. Among Surveon camera selection, 3MP bullet CAM3471HEM with smart HDR and 3x zoom autofocus, 2MP indoor dome camera CAM4311S2 with audio in/out with phone jacks plus 3MP outdoor speed dome CAM6471EZ could be the options in such application.

For medium-large project scale, the high bandwidth and storage demand of these cameras could generate major challenges in terms of overall application quality and stability. The embedded hardware RAID accelerator in Surveon NVR ensures that the multi-channel cameras have access to the required bandwidth when recording images, reducing the instability often seen when systems are conducting high I/O operations for extended periods

of time. In addition, through Surveon Control Center (SCC), the video central management tool, the advanced electronic maps and expansion up to eight screens at the user end can easily meet future demand growth, protecting the patients and staff from potential threats in time.

Surveon healthcare solutions have been successfully adopted in City Hospital in Macedonia and the Taipei City Hospital in Taiwan. "Combined with easy management and excellent cost efficiency, Surveon's solutions have enabled us to greatly enhance security around our premises and thereby boost the overall operations of the hospital", said the project integrator of City Hospital in Macedonia.

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



## Milipol Asia-Pacific 2017, The Region's Largest Homeland Security Event Receives Official Support From The Ministry Of Home Affairs, Singapore And The Ministry Of The Interior Of France

**S**ingapore- Milipol Asia-Pacific 2017, the leading international exhibition and conference dedicated to all aspects of homeland security in the Asia-Pacific region will be held in Singapore at the Marina Bay Sands Convention Centre from 4 - 6 April 2017.

Supported by the Ministry of Home Affairs, Singapore and the Ministry of the Interior of France, the seventh edition of Asia-Pacific's largest homeland security show promises to be the largest of the series so far with over 250 exhibitors, eight national pavilions from more than 30 countries showcasing the latest solutions, technologies and innovations for regional homeland security. New pavilions added to this year's show include Drones & Robotics and Private Security.

VIP delegations from countries

**Milipol Asia-Pacific 2017 | 4 April - 6 April 2017**  
Marina Bay Sands Convention Centre,  
Singapore

throughout the region will again be represented at Milipol Asia-Pacific 2017. An estimated 150 VIP delegates, comprising of key security personnel from more than 15 countries will be in attendance.

The Milipol Asia-Pacific 2017 Conference is honoured to have Mr Khoo Boon Hui as its 2017 Conference Chairman. Mr Khoo was Singapore's Police Commissioner (1997-2010) and INTERPOL President (2008-2012). He left the Ministry of Home Affairs, Singapore as its Senior Deputy Secretary in 2015.

This year's theme, Emerging Threats - The Case for Collaborative

Public Safety, will be focusing on the importance of emergency preparedness amid the increasing presence of threats, and the critical need for public and private collaborations.

Anticipated highlights of the three-day conference and for the first time in Asia is the retelling and lesson learnt of the Paris attacks in the words of the four key people involved, plus sharing his extraordinary experiences on the ground in Syria by James Le Mesurier, Director of the Syria Civil Defence support programme.

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

## INTERPOL World 2017 builds up momentum with strong support from public and private sectors

**S**ingapore - The second edition of INTERPOL World has garnered strong support from public and private sectors, both locally and on the international front. Owned by INTERPOL, the world's largest police organization with 190 member countries, the event is supported by Singapore's Ministry of Home Affairs (MHA), the World Economic Forum and CyberSecurity Malaysia, an

agency under Malaysia's Ministry of Science, Technology and Innovation. INTERPOL World provides a strategic platform for mutually beneficial collaborations, information sharing, innovations and solutions in response to security threats. It encapsulates the vision of a safer world through a multi-stakeholder approach by engaging the government, private and public sectors to address

future security menaces.

"INTERPOL World is a unique opportunity for law enforcement and industry to build partnerships for developing innovative solutions to the global security challenges of tomorrow," said Jürgen Stock, INTERPOL Secretary General. To stay ahead of the game, law enforcement agencies and commercial organizations need

*continue on page 36*



to embrace current and future technologies to detect, prevent and investigate, so as to safeguard assets, property and citizens. Innovations in securing the cyberspace, public safety technologies such as artificial intelligence, big data analytics, drones, and identity management solutions such as biometrics, forensic sciences and investigations are some of the key enablers to better equip law enforcers and commercial entities with the necessary tools and solutions to counter future security challenges.

At least 300 international manufacturers and solutions providers will present their latest cutting-edge technologies to 10,000 security professionals and buyers from both public and private sectors. Market leaders such as Canon, Datacard, Gemalto, Kaspersky Lab, Microsoft, Oracle, NEC Corporation, Securiport, SICPA and Symantec have confirmed their participation at INTERPOL World to further strengthen their presence in the security landscape.

INTERPOL World 2017 will also see strong participation from national groups led by trade offices, chambers of commerce and associations. Featuring the best capabilities

and latest innovations from their countries, confirmed national groups include France led by Business France, Israel led by Israel Export Institute, and Singapore led by Singapore infocomm Technology Federation (SiTF) and Singapore Manufacturing Federation (SMF). Participating for the first time as a National Group will be Italy led by Italian Chamber of Commerce Singapore, Japan led by Japan Network Security Association (JNSA) and USA led by the U.S. Commercial Service.

This strong international presence reaffirms the recognition of INTERPOL World as an important platform for all to come together regularly for dialogues and sharing of ideas. With five months to the event, international visiting delegations from various law enforcement and private sectors have already booked their interest. The dedicated Visiting Delegation Programme is a vital part of the INTERPOL World event to ensure a perfect match of buyers with suppliers. Each delegation will have a customized itinerary in line with their profile and interest to maximize their time spent at the event. To date, visiting delegations from Australia, Indonesia, Japan, Malaysia, New Zealand and the

Philippines have been confirmed.

INTERPOL World will also see stronger support from international trade associations this year. (ISC) 2, Asia Cloud Computing Association (ACCA), Biometrics Institute, Cloud Security Alliance, European Corporate Security Association (ECSA), International Aviation Security Association (IASA), ISACA, and Transported Asset Protection Association (TAPA) have confirmed their support, recognizing INTERPOL World as an event for their members to source, learn and network. Trade organisations supporting the event for the first time include APSCA, Certified Counter Terrorism Practitioner (CCTP), Cross-border Research Association (CBRA), EC Council, IEEE Communications Society, Security Identity Alliance, and World Association of Detectives (WAD).

The INTERPOL World Congress will happen from 4 to 6 July while the INTERPOL World Exhibition will take place from 5 to 7 July 2017 at Suntec Singapore Convention and Exhibition Centre.

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

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## Surveon Facilitate Surveillance System Status Monitoring via SurveOne Phase 1.2

**N**ew Taipei City, Taiwan –Surveon is pleased to introduce the updated version for SurveOne, an exclusive web-based management tool which provides partners an easy way to manage the surveillance system in real time. For any system integrator needing to check the system from a distance, SurveOne provides an instant access to check the overall system as long as there is Internet connection.

The web-based SurveOne allows users to check the overall system status in a browser, using HTTP. User can monitor the system status and ensure the consistency stability. To quickly grasp the system at a glance, SurveOne provides users graphical information, including NVR status, network connectivity, storage capacity, and camera status so the status can be figured out more efficiently. Moreover, with 3 groups of event logs: critical error, error, and warning, users can easily identify the priority of the events and take action accordingly. Designed for easy configuration, deployment and maintenance, SurveOne allows users to do one-time setup for NVR or camera configurations that can be saved as backup to help simplify the set-up process in the future.

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Aside from real-time monitoring on system status, in SurveOne Phase 1.2, users can download the firmware to USB, select one upgrade type, and then batch upgrade Surveon's cameras through USB or revise the setting / IP of cameras, further increasing the efficiency in terms of configuration and maintenance. It is a great convenience to keep track of the system status and fix the errors before receiving customers' notice. The SurveOne Phase 1.2 is released respectively on all Surveon SMR and NVR Series. It is an ideal solution for partners to apply on every vertical market to save time and repair cost.



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

## Assurity Partners V-Key For New Mobile Software Authentication Solution

**S**ingapore- Assurity Trusted Solutions (Assurity) has inked a collaboration with V-Key, a global leader in digital mobile security and accredited by the Infocomm Media Development Authority (IMDA), to deliver an innovative form of authentication via V-Key's mobile soft token application called V-Tap.

V-Tap will provide a new level of security and convenience for consumers who use commercial online services delivered through Assurity's National Authentication Framework (NAF). This includes securities trading firms, banks and insurance companies. The mobile soft token will be offered in addition to Assurity's hardware and SMS authentication solutions.

The software token from V-Key, also deployed by top banks in Singapore, combines the security of hardware tokens with the convenience of SMS-based One-time Password (OTPs). Unlike SMS-based OTPs however, soft token-based OTPs are able to work offline and do not require mobile network connections, eliminating latency and delivery issues.

V-Tap is built on top of V-OS, V-Key's pioneering virtual secure element, which equals or betters smart chip security specifications and offers robust protection for the Assurity application including multi-layered protection against advanced threats targeting mobile applications. This means the protocols for verification of the user's identity are as secure as those for services that require strong authentication such as financial transactions. By deploying V-Key's solution, which works on both iOS and Android devices, Assurity adds another layer of security for smartphone users who seek to protect all their online transactions on-the-go conveniently, with one application.

Besides being a layer of convenient security, the soft token authentication solution can also be easily migrated to a new mobile device in case of loss, or change of the device. In such circumstances, if a person loses or replaces their phone they should contact their service provider to reactivate the application on their new phone.

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

**Do you have news for us?**  
**Good!** Email us at [sst@tradelinkmedia.com.sg](mailto:sst@tradelinkmedia.com.sg)





# ONVIF's Role in the Internet of Things and Cloud-based Access Control



**D**espite fears of security breaches, companies are gravitating toward Internet of Things-enabled security/cloud-based access control using solutions that are interoperable, integrated and/or cloud based for flexibly and future proofing. Most customers need the flexibility to change, modify or grow their system without spending thousands on infrastructure and hardware, and a cloud-based access control system might be a great place to start.

► *By ONVIF Steering Committee Chair Per Björkdahl*



As we've seen everywhere, when systems have moved to the cloud, endless flexibility and scalability are the primary benefits. ONVIF has been 'cloud-conscious' for a while, which is why we have focused on providing standards that enable customers to deploy systems that maintain flexibility through an open interface in the cloud or on a server-based system.

There are, of course, serious security concerns to be addressed as well, which is why many aren't using cloud-based access control. Some cloud-based technologies are already facing criticism for their vulnerabilities and their potential for poor security practices, covert data collection, loss of control of devices and invasions of privacy. Data sharing inevitably means that a security breach on one device or system could result in vast amounts of data from many systems and devices being compromised.

The integrity of the security we provide as an industry is paramount

and should not be compromised for ease of use or cost-savings. Businesses, governments and people rely on us to protect what is important and we must continue to maintain the high standards that currently exist in our industry today. That is not to say that the physical security industry should ignore the cloud, but rather we should be thoughtful and deliberate in our approach as we develop new products, software and systems.

Admittedly, the speed of adoption of new technology in access control has historically been slower than it is with other physical security disciplines like video, which may have affected its growth. Access control systems can last a very long time and it's much harder to 'rip and replace' an access control system, compared with a video surveillance system. It can also be difficult to deploy a truly hybrid access control system, so many are reluctant to install new access control technologies because of compatibility issues.

ONVIF actually addresses basic interoperability between access control devices with its Profile A, which is scheduled to be released in its final version in early 2017. Profile A covers physical access control features and configurations. It was developed to expand the feature set and configurations related to credentials, access rules and schedules and to address broader use case scenarios and a larger segment of end users. This profile benefits end users, such as security guards, receptionists, human resources departments and security officers by expanding access to the system. Profile A also makes video/access control integration much easier.

The increasing demand for

integrated systems along with the rise of cloud-based solutions and IoT's interconnected everything approach may very well speed up the access control industry's adoption of new technology and broaden its appeal to the market.

The physical security community's discussion of IoT is somewhat different from those of other industries. The integrity of the security we provide as an industry should not be compromised for IoT. Businesses, governments and people rely on us to protect what is important and we must continue to maintain the high standards that currently exist in our industry today.

Several alliances have already formed to prepare for an increase in (machine-to-machine) communications and the broader IoT. ONVIF's standards were originally created to take usability to a higher level, giving end users the freedom to pick and choose technology from different brands without sacrificing functionality. Similarly, IoT will require physical security manufacturers and developers to work together in establishing baseline standards that allow physical security systems to work with devices beyond the confines of our industry.

We must determine how to best continue our job of protecting valuable assets while providing end users with the functionality and interoperability they expect. The challenge for our industry, of course, will be to provide increased interoperability and ease of use for end users without losing the integrity of the security that we offer as an industry.

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



# Taking Wearable Biometrics to the Next Level

**John Kendall, global director of the border and national security program at Unisys looks at how biometrics are becoming the ultimate “Internet of Things”.**

**I**t is widely agreed that wearable technology is the most exciting thing to happen in biometrics for years. It has led to the development of smaller cameras, tiny sensors and public acceptance (desire?) to wear the latest gadgets. As many wearables include a camera, it's an easy leap to use facial recognition for both user authentication and for identification of other people. For example, smart glasses or body worn cameras might use facial biometrics on the device itself to immediately identify people in the field of view – or they might connect wirelessly to a data bases to match an image against a watch list.

While there was significant public outcry to the general use of facial recognition technology in Google Glass, it did set the scene for greater things to come. And they are coming...

If you saw Mission Impossible: Rogue Nation you'll remember the smart contact lens with the built in camera and communications that was able to photograph documents and send the images to a PC. Pretty farfetched, huh?

Not at all! Samsung has been granted a patent for contact lenses with a display that can project images straight into the user's eye. The lenses are equipped with a built-in camera and sensors that can be controlled simply by blinking.

And Sony has applied for a patent for a pair of lenses with an organic electroluminescence display screen that allows you to view video, images, and other information. The Sony contact lens can be controlled by the user



with the blink of an eye using embedded piezoelectric sensors that measure eyelid closure time to differentiate between an average blink and extended blink for control. Last but not least it includes a power source that uses electromagnetic induction to keep the lens operating throughout the day.

A very discrete alternative to Google Glass.

But it doesn't stop there: the next key development is nanosensors. Researchers are looking at nanotechnology that can be placed inside the human body to monitor, examine and treat medical conditions. Future nanosensors will be capable of measuring unique physical attributes that are impossible or impractical to capture using external sensors.

*To put it simply, nanosensors will literally turn biometric solutions inside out!*

## **What types of biometrics are best suited to take advantage of future wearable technology?**

Gait recognition identifies an individual by the way they walk. Traditionally gait recognition uses video analytics and requires clear field of view and an extended capture area. However some of the smart clothing being developed for sports and exercise includes accelerometer



sensors embedded in shorts, pants, socks and shoes. These sensors are able to provide a continuous stream of gait biometrics even in crowds or behind obstructions. And because gait is very difficult to spoof, gait recognition could be useful for continuous access control in sensitive facilities.

Or how about skull recognition? Persons who wear smart glasses or smart headphones can reportedly be identified based on the way sound is conducted through their head. According to research from the University of Stuttgart, Saarland University and the Max Planck Institute for Informatics, each skull shape is unique and sound transmission through the skull can be captured as a biometric pattern that can be matched much like voice identification using a solution they call *SkullConduct*<sup>1</sup>. A great way to control who can use a pair of smart glasses.

But the biometric modality that is best positioned to benefit from future wearable biosensors is bioelectrical identification. Electrocardiograms (or ECGs) measure the electrical activity in the heart as it contracts. Cardiologists have long used ECG's to detect heart anomalies, but research shows that the ECG signal is unique to each individual. Similar to ECGs, Electromyograms (EMG) and Electroencephalograms (EEG) measure electrical activity in the skeletal muscles and in the brain are unique to individuals and can be used for biometric identification. Traditionally bioelectrical activity is recorded using a series of wired



sensors attached to the body using adhesives and conductive gels. But with biosensor networks and smart clothing, hundreds of sensors can be built into your clothing and other wearables to provide highly accurate and spoof-resistant biometric authentication with no wires.

### How will advanced wearable biometrics be used in the future?

Some wearable technologies are capable of biometrically identifying other people ie "Who are you?" eg using body worn cameras, smart glasses with facial or iris recognition technologies to identify known individuals on a watch list.

But the more likely application of biometrics in wearables is for

biometric authentication. Ie "Are you really who you claim to be?". The emerging biosensors and biometric technologies will blend biometric data capture into clothing or even our bodies themselves.

Of course, if emerging biosensors are able to detect and accurately measure geolocation, heart rate, breathing, body temperature, brain activity, muscle tension and blood chemistry, then the possible applications go far beyond biometric authentication.

It is indeed exciting times for biometrics, wearable tech and Internet of things!

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

<sup>1</sup> "Researchers Announce Skull-Sound Authentication", Perceptual User Interfaces, 25 April 2016



# Navigating Global Access Control and the Internet of Things

By Mitchell Kane, President, Vanderbilt

**W**e live in an exciting time when it comes to technology. New features and advancements are changing how organizations do business, how people work and the interconnectivity between the two. The Internet of Things (IoT) introduces a new capacity for connectivity that is proving to be a real benefit for enterprises, but with it comes unique challenges that must be addressed. This is especially important in the global access control market, and as organizations move forward,

strategic technologies can be a critical asset to safety management.

The IoT is the concept of connecting any device with an “on and off” switch to the Internet – and to each other, in some cases. In the realm of access control, this means smartphones and wearable technology – such as a wristband – can be used as mobile credentials and allows access to specific sections of a building or campus. Gartner recently reported that by 2020, there will be more than 26 billion of these connected devices.

The IoT, in theory, has the potential to offer nearly endless opportunities for connectivity, but also poses significant risk to the safety and security of data in the age of cyber attacks and breaches. This higher level of connectivity introduces increased risk, but this doesn’t automatically mean an increase in an organization’s security budget or preparedness plans. Companies that use the IoT within the framework of increasing safety – including access control – must be strategic in the approach. A lag in keeping up with new technology (i.e. software





updates) can compromise an organization, and leave it open and vulnerable to outside threats. This reason is why it is critical to employ a more advanced, comprehensive security plan that helps realize increased situational awareness and business intelligence.

So how does the IoT affect access control? Advanced connectivity through smartphones and other devices allow for a much more personalized experience by utilizing mobile credentials, biometrics and analytics in new and innovative ways. On a large scale, the IoT can be applied to a citywide transportation system, using data gathered to measure energy use and identify waste, which can help improve the way we live and work as a society. Within security, this might mean intelligent cameras, intrusion detection alarms or various sensors that are analyzed at a central point within a security department.

In access control, this means network-enabled door readers that provide increased insight into an organization's physical security posture, such as throughput rates, traffic and the ability to look at an

individual user's usage. Additionally, this kind of connectivity through network-enabled readers allow an organization to set specific "rules" that can be applied depending on the time of day, day of the week or during special events – the possibilities are endless.

A critical component to venturing into IoT-friendly systems within the security realm is protecting data and privacy. Today's systems integrators, dealers and security consultants play a crucial role in the deployment of access control systems that use advanced IoT-enabled devices. If an end user or facility manager wants to use connected devices, they must understand and educate users in best practices to protect organizations from risk. For these entities, cybersecurity becomes paramount to success.

The important question is: How does an enterprise manage this endeavor? The answer is by

adapting a user-centric design with scalability, tactical data storage and access with appropriate identification and security features. After all, many times we see business success measured by interactive engagement, communication and social media, which make it important to stay ahead of the game when it comes to the access control industry.

One of the most difficult challenges when it comes to advancing technology is the act of keeping up with it. As industries change and grow, so too do the risks and threats to safety management. While the IoT presents manufacturers, integrators, dealers and consultants with added value for physical security systems, it is critical for all parties to remain cognizant of the potential problems that can arise with such new technology.

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



# Arecont Vision® Megapixel Cameras Bring Peace of Mind to Community Homeowner

## Background

Sherwood Lake Club Inc. is a private residential community located in Southwest Topeka, Kansas. The 330 members of this premier community enjoy a number of amenities including fishing, boating, and tennis. Residents also benefit from being able to enjoy long walks along the 225 acre private lake, community clubhouse, and living outside of town while still being only a short distance from city conveniences.

Pride in the community is evident with residents maintaining their homes and frontages with meticulous attention and care, but there are still challenges. Sherwood Lake homeowners have been subject to neighborhood mischief and pranks as well to serious acts of vandalism. Neighborhood Watch is active in the community, observing and reporting any suspicious activity or incidents to local law enforcement. Some residents have also installed video surveillance systems on their property. Mr. Tom Thomas was one who did so.

As camera imaging and recording technology advanced, Mr. Thomas' original four-camera system was gradually upgraded to include high definition analog cameras. Poor image quality affecting facial recognition and night time image capture issues remained.

"We had the ability to watch what was happening on the street but the recordings were not of sufficient quality to hand over to

law enforcement for prosecution purposes," said Mr. Thomas. "Even the newer high resolution cameras didn't provide sufficient image quality."

## Solution

New infrastructure installed by the homeowner presented the option of adding IP megapixel cameras to the system, which provided the solution to the image quality issues.

Mr. Thomas acquired Arecont Vision® AV-3226PMIR MegaView® 3-megapixel cameras to upgrade his security system. The cameras proved to be the perfect solution for the front and side yard of the home. The cameras provide 360-degree, high resolution coverage of Mr. Thomas' one acre lot which includes shoreline, boat and lift, and associated walkways.

The problem of capturing the make and model as well as license plate of fast moving automobiles was solved with the installation of two Arecont Vision MegaView AV-2226PMIR 2-megapixel cameras.

"The Arecont Vision cameras are very impressive and solved the identity issues," said Mr. Thomas. "We're able to see the faces of anyone who passes by on foot and license plates of anyone who drives by in their car with precise clarity."

Two types of Arecont Vision cameras were used in this project. The AV-2226PMIR 2-megapixel MegaView 2 is an all-in-one solution with integrated 1080p full



Premier community residents use video surveillance to address vandalism

HD WDR camera, IR illuminator, remote focus, remote zoom, p-iris IR corrected lens and vandal resistant aluminum cylindrical (bullet-style) enclosure with IP66 weatherproofing standard. The AV-3226PMIR 3-megapixel MegaView 2 camera features a 3-9 mm P-Iris lens, day/night functionality, IR LEDs, wide dynamic range (WDR), and is IP-66 and vandal resistant rated. All images are recorded by an OnSSI Ocularis-IS video management system.

## Conclusion:

Since the system was installed, local law enforcement has used images produced to help identify suspects and enabling law enforcement to make actual arrests.

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

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# Honeywell puts Building Controls in Occupants' Hands

*Mobile software application enables building occupants to tap into Internet of Things capabilities to address common building issues including temperature settings, access control.*

## Background

Building occupants long have grappled with who to call when their work area is too cold, or how to gain access to a facility when they forget their access card at home. Honeywell recently announced a new mobile software application for building occupants that addresses these common frustrations.

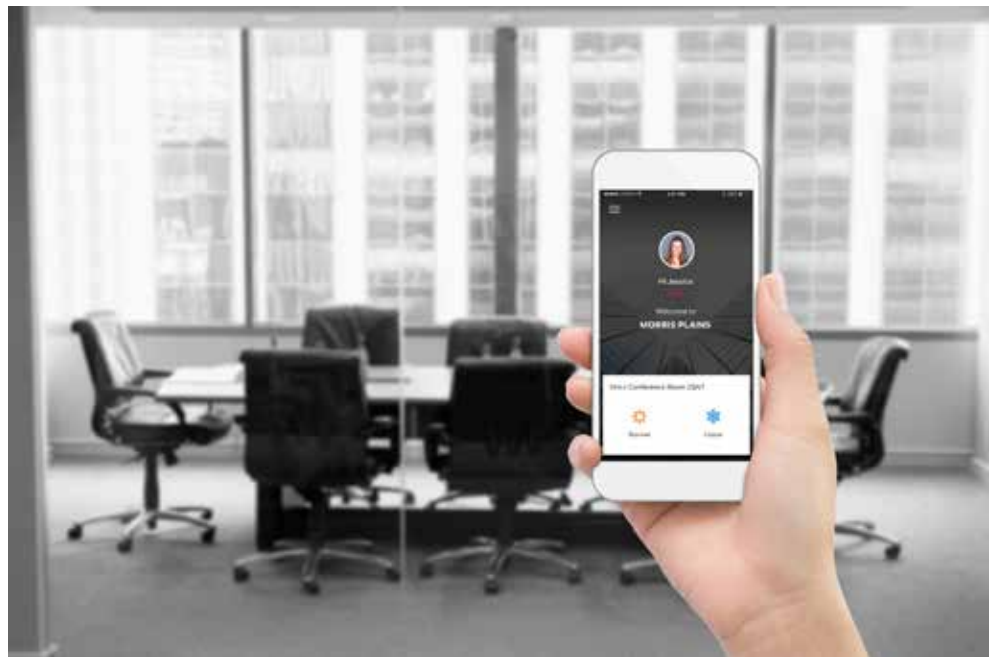
## Solution

The Honeywell Vector Occupant App combines the convenience of today's mobile devices with connected building features to give users more control over their comfort levels and ability to securely move about the work place. The new software is the latest example of Honeywell's leadership in the Internet of Things around connected buildings.

The new app provides digital identification and integrates with core building functions, including access and comfort control, to enhance building occupants' experience with the touch of a screen.

The app's access control capability eliminates the need for physical cards or fobs and gives users secure access via their smart phones. In addition, occupants can quickly and easily communicate temperature discomfort for real time adjustments instead of the more time-consuming process currently used of seeking out a facility manager or making a phone call to request temperature changes.

Facility managers, in turn, benefit from immediate insight into where and how comfortable occupants are, so they can make adjustments more quickly and easily. And, the app's digital identification and access control capabilities make it easier to manage occupant credentials, eliminating the need for keeping track of and replacing misplaced access cards.





“Occupant engagement is an increasingly important aspect of intelligent building solutions,” said Casey Talon, principal research analyst, Navigant Research.

Backed by a cloud-based architecture and enabled by HID Global’s Seos® credential technology, the Honeywell Vector Occupant App works independently of underlying building systems, enabling widespread use and adoption. Administrators within facilities deploying the app access a cloud portal to manage users and features such as corresponding user identification and credentials. Users who download the app must receive an invitation from the administrator in order to gain access to its features.



“Smart phones and apps continue to enhance our everyday lives, from allowing us to hail a cab to giving us direct insight into where we stand on a restaurant waiting list. We’re now applying these same concepts of insight and control to how one interacts with a building,” said Aseem Joshi, regional general manager, Honeywell Building Solutions, India.

The app currently features three layers, including:

**Digital Identification** – Eliminates the need for plastic badges or temporary tags and solves the issue of outdated photo IDs by providing an up-to-date photograph.

**Convenient Access Control** – Builds on the app’s digital identification feature, offering mobile-based access control that can easily be managed by a facility, and eliminating the need for tracking and replacing cards or fobs. Occupants, in turn, have one less item to carry, and can open doors from greater distances than traditional key cards and fobs.

**One-Click Hot/Cold Calls** – Provides a quick and direct way for occupants to indicate when their work areas are too hot or too cold, and to receive confirmation that their issues are being addressed. Facility managers are alerted to occupants’ discomfort in real time, and can view call location, watch for patterns and quickly make adjustments to satisfy occupants.

## Conclusion

The Honeywell Vector Occupant App is part of Honeywell’s approach to connected services, which leverages the connectivity of buildings to improve how they operate and the experiences they offer for those who visit and work within them. The app is also the latest addition to Honeywell’s mobile software strategy, a significant part of the company’s efforts to provide the latest technology innovations to help keep facilities safe, secure, comfortable, productive and energy efficient. Future enhancements and capabilities are planned for the app that will take advantage of building connectivity. The Honeywell Vector Occupant App currently works with Apple and Android products and is available on iTunes® and Google Play™.

For more information, please visit [www.honeywell.com/worldwide/india/india-en](http://www.honeywell.com/worldwide/india/india-en). **SST**



# Penetration of Smart Home Systems to Reach 7 Percent by 2025, New IHS Markit Analysis Reveals

*By Blake Kozak, principal analyst, smart home and security technology, IHS Markit*

## Highlights

The leading service providers with smart home offerings share core tenets that incorporate flexibility, innovation and 'the experience'. As long as a service provider adheres to these values, the means of development and delivery of the ecosystem (proprietary or open) is inconsequential.

IHS Markit projects the penetration of smart home systems will reach 3 percent of global households by 2018 and 7 percent by 2025. In 2023, professionally monitored smart homes will exceed non-connected, traditionally monitored security systems.

In order to preserve the growth of the smart home, service providers need to have flexible billing models. The challenge with alternative models to the typical two- or five -year contract is churn and the cost of acquiring the customer. As a result, on-demand/no-contact models may be enticing for do-it-yourself (DIY) solutions, but may be less lucrative in the short-term for service providers. Despite this challenge, consumers are beginning to expect alternatives to long-term contracts in the form of on-demand billing, professional installation with self-monitoring or DIY installation with professional monitoring. For security providers, these alternative models can be an additional source of RMR for dealers seeking quick installations with minimal effort required.

## Analysis

### *Rise of the DIY market*

Innovation is critical for service providers in the smart home. The future of the smart home will have less focus on safety and security devices and more focus on automation, user experience and ecosystems.

It is no secret that the DIY market has taken revenue from professional channels because of the innovation and design flexibility of DIY versus the often vertically integrated and proprietary nature of professional offerings.

As a result, service providers with vertically integrated ecosystems need to be quick to market with in-house innovation as well as necessary third party integrations, such as voice control with Alexa Skills or Google Home. Moreover, integrations with automotive, well-being (independent living and digital/telehealth) and multi-room audio will ensure differentiation, future proofing and additional revenue streams.

### *All about 'The Experience'*

The experience is the final critical tenet for service providers to be fully engaged with the smart home. The experience could be a platform with a unique GUI or the experience could be devices that complement each other well, e.g. indoor/outdoor cameras with the complete spectrum of security and automation devices.



If what a service provider offers is a single device without an ecosystem built around it, it must be compatible with others, and offer multiple transport protocols. For service providers, this could also mean consolidating the smart home intelligence into a router or gateway.

Engaging the end user with problem-solving technology (hook products) at the start, and making it simple to add additional devices (a large ecosystem of potential devices) is important for long-term success. Whether the end-to-end ecosystem is built up in-house or outsourced with reliance on third-party integrations makes no difference for the long-term success of service providers in the smart home as long as the devices are thoroughly vetted with the platform.

The advantages of in-house development cannot be ignored, with the ability to have tighter control of the data and end-user experience. Many of the industry's top-players are moving in this direction, namely Vivint, with its Sky platform and Comcast, with its manufacturing of sensors, its partial acquisition of Icontrol and finally the ability to control lighting with its voice-controlled remote. Despite one company being security focused and the other being a telecom, both have moved more quickly than many of their peers in terms of innovation and evolving user experience.

Overall, service providers are in a unique position in that many already have millions of customers, so service providers that implement these three tenets will find the most success against the DIY juggernauts of Amazon, Apple, Samsung and Google/Nest.

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



# Is the Video Doorbell Paving the Way for Greater Adoption of Video Verification in Home Alarm Systems?

*By Anna Sliwon, analyst, residential security, IHS Markit*

As the popularity of video doorbells increases, owners are likely to become more comfortable with video cameras in their homes. For many homeowners, a video doorbell is their first experience with an IP camera. Installing it, setting up the app and then later using it to view something remotely all help to build consumers' familiarity with network video cameras. This raises consumer awareness and lowers privacy concerns, two of the main barriers responsible for slowing adoption of video in the home in the past.

This also has the potential to lead to increasing demand for integrating video doorbells with home alarm systems. For example, if the two are combined with an electronic lock, this would allow a consumer to grant someone access to his or her home safely from anywhere with a Wi-Fi connection.



## **New revenue stream for installers**

A rise in the popularity of video integration with intruder alarm systems potentially creates new product development and marketing opportunities. It enables integrators and installers to upsell cameras as part of their standard offering and gives manufacturers a unique selling point to market.

Cloud storage services offer another opportunity for revenue generation, which professional monitoring companies could try to integrate with their existing service offerings.

Increased consumer preference for video cameras could result in less spending on traditional intrusion equipment like PIR detectors, magnetic contacts or break glass sensors. In the short-term, it seems that video cameras would be adopted as an add-on to the existing system, strengthening the abilities of the traditional equipment and the system overall. However, as video analytics continue to improve, it remains to be seen how this trend could affect demand.

In 2015, 1.1 million (21 percent of) residential connected professional monitoring service contracts included some



form of video monitoring service in the American region. This proportion is forecast to increase, particularly with the emergence of facial and object recognition, promising to further enhance the future functionality of video verification. This functionality offers potential savings both to consumers and providers of monitoring services through lowering false alarm rates.

### Future opportunity for video doorbells

Professionally installed alarm solution providers such as Vivint, Comcast and Alarm.com are adding video doorbells to their offerings. Currently, however, the typical profile for a buyer of a video doorbell (young and tech-savvy) is also closer to that of one who would purchase a DIY alarm system rather than a professionally installed system. It is therefore likely that in the short-term, the DIY market will feel these proposed effects first if they are to become apparent.

With a global market size of \$78 million in 2015, video doorbells are only just beginning to gain traction among residential consumers. Their adoption is still largely limited to the US and despite many new entrants; market supply is currently concentrated with a few larger suppliers such as Ring. As competition increases, demand will accelerate and prices will fall. However, the primary barrier today remains price. A normal, non-video-capable doorbell costs less than \$20, while video doorbell costs often exceed \$150. Raising consumer awareness of the benefits will be key to increasing the adoption rate.

IHS Markit forecasts that the global market for video doorbells will experience a 28 percent CAGR over the next five years. As the market continues its rapid ascension, partnering with video doorbell providers could prove lucrative for home alarm manufacturers and service providers.

Another option would be to work with third-party integration software providers like IFTTT and Stringify to build a clean, easy-to-use integrated solution.

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

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# Deploying Advanced IP Cameras in the Challenging Light Conditions of Rolling Stock Environments



By Kevin Shen, **Moxa Product Manager**

Whenever a surveillance system is trying to smooth video, light plays a very important role. Most security professionals have acquired important video only to see that the resulting footage is over or under exposed because the camera is unable to adapt to the challenging light environment.

Trains are noted for being a particularly difficult surveillance environment and several unique challenges arise and must be overcome in order to achieve consistently smooth video footage. For example, a fast-moving train will often experience severe light fluctuations when traveling through tunnels, open air and shade, or when another train passes by. Yet these challenges are not limited to what is happening outside of the train, but also include onboard challenges such as the lights being switched on and off, and doors opening and closing. In order to ensure clear imagery on trains, a tailor made solution is required.

## Technology overview and the challenges

Auto Exposure (AE) is a technology that has been around for many years. It adjusts the shutter, IRIS, and gain based on the ambient light captured by the sensor. The AE algorithm uses an image taken in ideal light conditions and stores it as a reference image. If the current image brightness is higher or lower than the reference image, the AE algorithm will adjust the current image to make it the same as the reference image. However, if the change of brightness affects a small part of the overall image, or if there is a significant light change in a small area, the traditional AE algorithm will readjust the whole image, which is a problem that must be addressed before the AE feature can be effectively deployed on trains.

Two of the most difficult challenges when using the AE function on trains are caused by a combination of environmental and human factors. In a stable light environment, the AE performs its function well but in the complex light environment of a train, the standard AE algorithm cannot achieve the standards required. Due to space restrictions onboard trains, most cameras that are deployed will be compact, and are unable to accommodate an adjustable IRIS.

For this reason, the AE feature that we will consider in this article is related to the shutter and gain.

A typical problem that is encountered on trains is when the AE algorithm compensates for adjustments in light when it is not necessary. An example is when passengers who are wearing light-colored clothing enter the carriage and increase the brightness of the image causing the AE algorithm to reduce the image brightness. If those passengers then leave the carriage, the AE algorithm will adjust the image again because the image has become darker. A similar situation occurs when the light conditions inside the carriage change due to the train entering or exiting a tunnel or passing by some buildings that block out the light. The challenge of the current AE algorithm is to keep the AE functioning as it was intended to but also avoid any unnecessary adjustments.

## Solution for the passenger consist

First, light conditions are very stable in cars with a sustained light source. These cars will not experience significant light fluctuations internally as the train moves. As a result, the AE algorithm does not need to be that sensitive to the light fluctuations that occur outside the train.



Another factor that must be considered is whether a light change within a small part of the image should be ignored. In general, the AE function will compensate when there is a change in the lighting environment. Most AE algorithms are designed to modify the image based on the overall image change. However, as the light source is generally quite stable on a train, a slight change in brightness would be attributed to a change in the objects present in the scene and would not trigger the AE adjustment for this scenario. The AE feature would still compensate if the image brightness changed considerably to ensure clear imagery.

We tested two AE algorithms by installing two cameras in a car consist and capturing video as the train entered a tunnel. The first incorporates a traditional AE algorithm while the second has a new AE algorithm developed by Moxa.

The result of the traditional AE is shown in Fig. 1. It clearly shows that the image is too bright because the AE adjusted the shutter or the gain too much when experiencing the light change of entering a tunnel. In Fig. 2, you can see the more advanced algorithm adjusts the parameters only slightly and the result is smooth image quality without overexposure.



Fig. 1: Video captured from traditional onboard camera when entering a tunnel.



Fig. 2: Video captured from new algorithm when entering a tunnel.

In Fig. 3 you can compare how the ambient light change affected the brightness and see the effects of the two

different AE algorithms. The line chart clearly shows that the second algorithm does not alter the brightness significantly and also produces a stable image more quickly when compared to the first.

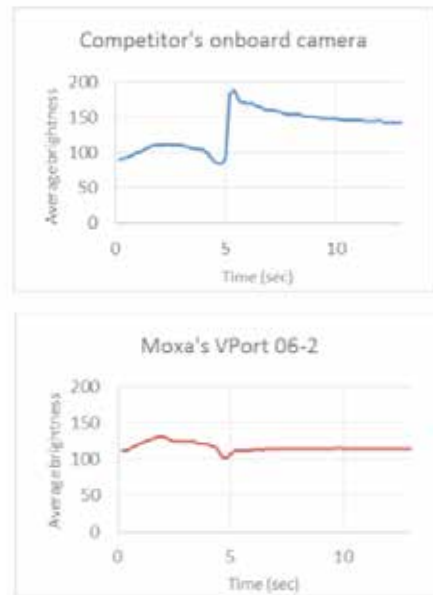


Fig. 3: A comparison of the levels of brightness when the cameras experience sudden light

### Tampering detection function

Fluctuating light conditions not only affect image quality, but also impact some functions that help enhance security. The tampering function has traditionally been unstable when deployed in onboard environments. However, this is a problem that must be overcome for users who require excellent video quality and a reliable security system installed in their onboard environment.

The camera tampering feature automatically detects when a camera is being tampered with and issues an alert to the user. This feature performs a comparative analysis based on a digital reference image taken by the camera during a period of ideal brightness. The amount of time from detecting a possible event to issuing an alert can be split into three phases. First, there is a learning stage when a possible tampering event is detected. Second, is the detection stage, when the algorithm continues to detect if there is any significant image change based on the reference image and also uses the new image to upgrade the detection sample. Finally, once a large change has occurred, the function will trigger the event alarm.

In order for the tampering algorithm to accurately determine whether a camera is being tampered with, a ratio needs to be established between the expected amount of change to the scene the camera would typically



## SECURITY FEATURE I DEPLOYING ADVANCED IP CAMERAS IN THE CHALLENGING LIGHT CONDITIONS OF ROLLING STOCK ENVIRONMENTS

experience onboard a train and when the camera is actually being tampered with. As onboard trains are constantly changing environments a clear challenge presents itself if the user wants to deploy accurate tampering algorithms onboard a train. Changes to image brightness can be caused by many different factors, and users do not want to receive a tampering alert for normal occurrences on a train such as the train entering a tunnel or passengers standing in front of the camera. In some scenarios, it is difficult for the algorithm to differentiate between when actual tampering of the camera is taking place and a normal image change onboard a train occurs.



Fig. 4: The car environment frequently experiences image changes.

### Challenges for deployment

It is important that the tampering algorithm judges correctly if it should or should not send an alert. False alerts are when a normal event triggers the alarm, and missed alerts are when a real tampering event occurs but the camera fails to send an alert. Several challenges need to be overcome so that users can avoid these two troublesome scenarios.

1. When a camera is being tampered with the color of the scene will change; therefore, a change of color should be counted as one of the factors for triggering the tampering alarm. Due to passenger movement or when the train moves through different environments the scene on a train will experience a change in colors. In either case, the camera's algorithm will send a false alert because it believes that a tampering event is taking place.
2. Another factor to decide whether to trigger the tampering alarm or not is when a small area of a scene undergoes significant light change. However, in a very simple or a very complex environment, it might be difficult to judge if this is an actual tampering event.
3. Different scenarios require different parameters

for triggering the tampering alarm. For example, frequent and large changes to the image should be expected in a crowded car. However, there will be places on the train where the image is more stable. Thus, the feature needs to be flexible in order to cope with different situations.

After considering the three challenges above, an effective algorithm will be able to judge whether a camera is being tampered with as well as a human operator could judge. In order to increase the accuracy of the tampering function, below are some solutions to the aforementioned challenges.

### How the challenges can be overcome

A variety of factors must be considered to determine whether the camera is being tampered with or not. The camera will not only consider the change in brightness of the image, but also the contrast and other relevant factors. Several contributing factors allow the camera to get as close to a human's judgement as possible. The sensitivity level of different parts of the scene can be fine-tuned to better suit different environments, as shown in Fig. 5 below. The algorithm can consider overall image changes and also partial image changes at the same time. The tampering alarm should only be triggered if the number of partial changes is sufficient to influence the overall change.



Fig. 5: The shaded red area frequently undergoes scene changes.

### Conclusion

Maintaining excellent image quality onboard trains is not a simple task. Several measures and countermeasures need to be considered to meet fluctuating light conditions, and to ensure that the tampering alarm is not triggered accidentally and still functions properly when a camera-tampering event occurs.

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

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# Think Your Smart Cards Are Secure?

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▼  
by Dr George Redpath, **CEng**  
**FIET, Joint Managing**  
**Director, Lumen ID**

**A**s we move into 2017 it is widely known that most legacy access control cards and smart cards in the industry are easily copied and cloned. But it is important to remember that even if you are using a secure technology (like EV1), cards can still be copied if there is careless use of the smart card 'Keys'. Not only can you buy traditional card cloning machines, but you can now also buy open hardware to exploit poorly written code that extracts AES smart card keys in a matter of minutes. If these smart card keys become known, then ID cards can be recreated (even if businesses are using the highly secure EV1 technology).

There is also the realisation in the industry that when many thousands of cards are issued with a common numbering scheme and key structure, that effective key management and lifecycle strategies need to be developed.

So the question is - how do we ensure that our smart card keys remain secure and uncompromised at all times?

To increase key security at the manufacturer level, leading smart card providers can offer a secure object, which is written to the smart card using a separate set of keys. Although this provides customers with a layer of protection, if these keys become known the system security is still 'at risk' as cards can be freely created. So to mitigate against this vulnerability, Lumen ID recommends that customers look internally at their 'Key Generation Ceremony' and process.

Very often smart card migration project success involves ensuring that smart card key structure and code is both written and managed in the most secure, anonymous and auditable way. Because after all, isn't it audit that drives behaviour? Questions such as how the keys are generated, how they are kept secret and how they are disseminated in global corporate environments, require robust answers to ensure that access control security is maintained.



An end-to-end security management process for securing and protecting smart card keys can be easily achieved using multiple, independent factors such as;

- 1) The generation of a private, anonymous key structure that's only known by the customer
- 2) Key rotation
- 3) Credential management software for the allocation of unique identifiers and to connect to existing Access Control Systems & databases.
- 4) Use of encrypted card printers & credential encoders

### **Generation of an anonymous, private key structure**

Although customers are assigned random and unique shipping 'keys' by the card manufacturer, it is important that keys can then be subsequently changed by the customer to an anonymous keyset; thus ensuring the utmost level of security and autonomy.

Historically smart cards were supplied completely personalised, with all of the information necessary for the card to function initially included within the card. For security & costs reasons however, the growing trend now is for most cards to be supplied minimally personalised, with further personalisation then required on-site.

The first step in the deployment of a truly secure smart card credential starts with the creation of a unique, private key structure that never leaves the clients secure area. During the customer's initial 'key generation ceremony' LUMEN ID recommends that smart card keys and passwords never exist in human readable form. They should never be written down and indeed no one person should know the pre-cursor to re-generate the keys. It is best practice to create a keyset that is derived using multiple paraphrases from numerous members of security staff. This ensures 'distribution of trust' as no one person knows the complete passphrase. From the combined passphrases a unique customer keyset is then created, along with a set of secure 'Key Configuration' cards (eg. Admin and KEY change cards) that are used to initiate readers and other security devices so that they can all operate seamlessly using the same keyset. The benefit here is that the manufacturer only knows the initial card shipping keys. But because they don't know the customers active cards and the unique paraphrase cards, the keys will always remain anonymous.



### **Key rotation**

It is recommended that Keys be capable of being changed periodically and recreated by the customer as and when required. Smart card suppliers should never be able to recreate the customer's active keys ensuring a degree of separation from the key management process. Opt for secure readers that can be used across different platforms and which allow key rotation. New keys should be capable of being distributed securely into the system using a secure reader key change configuration card. At Lumen ID we also recommend that keys do not reside on the access control readers directly.



This rationale is also supported by recent government standards bodies for access control in the UK - CPNI (Centre for the Protection of National Infrastructure) and NIST (National Institute of Standards & Technology), in the USA. These bodies emphasise the importance of not holding keys in the reader in case it's stolen with keys examined and extracted over time. Instead they recommend that keys should be held in the secure location of an access control door control panel.

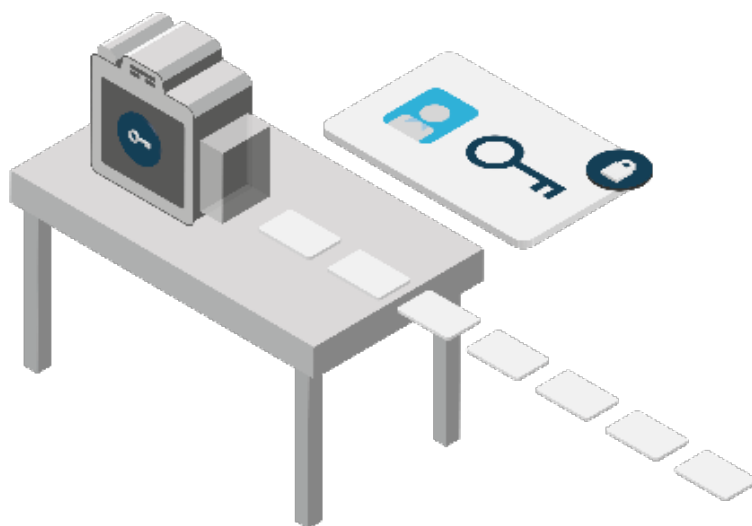
As an added layer of security and to eradicate any risk of key extraction or interface replaying, then LUMEN ID recommends the use of a smart 'Cipher box' (that sits between the card reader and the door control panel) to independently hold the keys.

**Credential management software to allocate unique identifiers to the credential**

Ensuring key autonomy is made further difficult for enterprise level customers that often have problems such as the use of multiple card technologies and multiple access control systems per region. How can they create a common global credential that's unique and highly secure, irrespective of its regional environmental differences? This is achieved using a top level credential management software interface that talks to the SQL databases of multiple access control systems. The credential management interface remotely manages the allocation of unique identifiers to the global credential. It controls all the key elements in the end-to-end credential solution including; 'Printer Encoders' and 'Card Number Ranges'. It also provides a full audit trail of credential/key management actions and provides real time alerts of prohibited actions for command and control.

**Opt for encrypted card readers & printer encoders to provide on-card data protection**

Encrypted card printers/encoders that hold the customers' private keys directly in the SAM of the encoder are also now available. When used in collaboration with key configuration cards and credential management software, printer encoders can successfully allocate a unique identifier to ID cards and ensure that on-card key/data protection is digitally assigned to an end access control credential.



**Conclusion**

Securing credential key structure and ensuring distribution of trust at all levels of the access control credential process is essential. A robust, continual audit procedure should be put in place to ensure that keys are never compromised. As manufactures and suppliers have no knowledge of the keys generated as part of this anonymous process, it is also essential that they are created and managed in a systematic, secure and auditable fashion. When choosing a smart card solutions provider ensure that they have the software tools available to allocate a unique ID to the credential, program the credential and vitally to provide a secure audit trail as to the ongoing validity of the credential.

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



## Creating a Vehicular Perimeter Security System For Petrochemical and Hydrocarbon Facilities



By Greg Hamm, Vice President - Sales & Marketing, **Delta Scientific**

**T**he vulnerability of the world economy to the loss of refining and delivery capacities is highly publicized. This has helped the petrochemical and hydrocarbon industries reach the apex of terrorists' lists for car bombing. Today, at production and distribution facilities, more is needed at checkpoints than simply verifying if a person is authorized to enter. Security systems must be employed that stop a vehicle, even one weighing 29,510 kg going 80 kph, dead in its tracks. That vehicle must be stopped where you want it stopped.

It's self-evident that the world of physical security has changed in response to the pervasive threat of terrorism around the globe. Where many facility managers were once criticized for taking extreme and expensive perimeter security measures, the question today is not whether to implement them, but simply how best to do it.

When there are strategic security areas throughout refineries, distribution centers or storage facilities where lots of trucks come in and out each day, those are danger points. Just one terrorist with one truck could



put a facility out of business for months. That's why most major petrochemical and hydrocarbon processing companies, including the big international names, employ vehicle access control anti-terrorist barriers, bollards and gates.

Companies such as Chevron, ExxonMobile, Conoco, BP, Shell and others employ them to protect their petrochemical and hydrocarbon refineries, facilities, distribution centers and storage areas. Vehicles not authorized can't get through.

These barriers will stop and destroy a truck weighing up to 13,607 kg and traveling at 80 kph. They can be raised or lowered at will to stop traffic or let it through. In an emergency, the thick steel plates pop out of the ground within 1.5 seconds. When integrated properly into a total system, including fences, lights, alarms, gates, and other security components, vehicle barriers are a key measure in preventing threats to sensitive resources.

Bollard systems operate individually or in groups up to ten. They are typically deployed in the up position and lowered only to allow authorized vehicles to pass. They go up and down quickly and are the perfect solution for entrances with high traffic.

The bollards employed in the oil and gas industry are tested to stop and destroy an attacking vehicle weighing 4,535 kg moving at 105 kph or a 9,071 kg vehicle moving

at 74 kph. When looking for a bollard solution, security buyers can choose the level of security you need. From protecting a refinery to a corporate headquarters or even a parked bulk trailer, they can find a bollard system that will meet their needs.

In addition to barriers and bollards, crash gates are also used at oil and gas producing, distribution and storage facilities literally around the globe, from Southeast Asia to the Middle East. A linear crash gate will withstand the impact of a 6,803 kg vehicle striking the gate at 80 kph. Clear openings range from 3.7 to 9.1 m.

There are a variety of crash rated swing gates to meet every security need. Some models operate without contact with the ground across the opening, another is a manually operated swing gate while others operate with rack and pinion drives across V-groove wheel ground tracks while incorporating IR safety beam and safety edges. Swing versions are also available.

Besides Chevron, ExxonMobile, Conoco, BP, Shell and other leading gas and oil producers use barriers, bollards and other counter-terrorist barricade systems. Leading nations' embassies and consulates in 130-plus countries uses them. In the United States, they protect over 85 percent of all nuclear power plants.

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





# Reliable, Covert, Real-Time Protection with DAS Fiber Optic Monitoring

**P**erimeter Security is your first line of defense. The OptaSense Perimeter Intrusion Detection and Security system (PIDS) safeguards your infrastructure and assets using advanced distributed acoustic sensing (DAS) technology capable of identifying and locating multiple threats in real time, with point-locating capabilities to 10m.

As part of a security program, OptaSense DAS technology detects, classifies and precisely locates a number of activities, including people, vehicle movement, low flying aircrafts, manual and mechanical digging, gunfire and many others.

Unlike conventional buried sensors, the PIDS system significantly reduces nuisance alarms using reliable algorithms that decipher and classify the type of intrusion. Users can be notified of alarms via text or email, and by leveraging GPS coordinates, the system can pinpoint the exact location of a security breach within seconds. With this insight, asset owners can increase the effectiveness of response mechanisms, such as patrols and helicopter reconnaissance, by ensuring manual inspection is focused on areas of real activity.

In addition to providing continuous coverage, the PIDS system can be customized to meet the demands of the perimeter it is protecting. It offers three types of installation: fence, buried or hybrid. A hybrid installation provides additional design flexibility and added security on fence and buried systems, as well as some water applications utilizing the same processor. The system can also be run in stealth mode for high security areas.

Installation is a simple process. After having the fiber buried or attached to a fence using a third-party, our experts are at your service to install the required hardware and calibrate the system to its environment. No certification is required for installation, and no hardware or power is required in the field. All electronics are indoors in a controlled environment—protecting equipment from EMI, RFI and other hazardous environmental conditions.



The system is software based, allowing easy alterations to perimeter adjustments and/or changes to the number of zones being monitored. The system is also easily integrated into other systems and sensors, such as CCTV and C2, for a more robust security management solution.

OptaSense DAS technology is protecting some of the world's most valuable assets. In critical infrastructure and security sectors, it is providing real-time monitoring of long assets, such as pipelines and borders. In fact, we are currently monitoring more than 15,000 km of critical infrastructure by providing leak detection and third party intrusion detection for pipeline and transport networks. The PIDS system has also proven valuable protecting critical assets in other market sectors, including utilities, industrial, transportation, commercial and residential.

To ensure threats to your most valuable assets are predicted and averted, rely on an innovative DAS solution from OptaSense.

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

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# Open Environment, Secure Community:

## How to Proactively Protect Schools and Religious Buildings

By Tyco Integrated Security (© 2015 Tyco)

**S**chools and places of worship should be havens where we learn, work, relax and practice religion in our communities. We expect these environments to be open and welcoming as a fundamental characteristic of the ways in which they serve their communities.

Yet, as news headlines too often remind us, threats to what had been long-standing safe places are all too real. The health and safety of children and sometimes the elderly are at stake, raising the consequences. In response, parents, the public, and school and religious leaders responsible for protecting their people and property seek ways to tighten security while preserving the community that remains at the heart of how they have operated.

Gun violence understandably grabs all the news channels' attention, but the people who run schools and religious organizations also must safeguard against more frequently occurring incidents. Among these are theft, burglary, vandalism and physical assaults that do not involve weapons.

Children, for example, are more likely to be victims of theft or

assault at school, and the incidence of physical attacks on teachers is rising.<sup>1</sup> In addition, occurring more frequently is the unauthorized access to sensitive personal, academic and medical information that's required to be kept private. As a result, security leaders say their campuses are less secure than they need and want them to be.<sup>1</sup>

The busy nature of school campuses and religious buildings with high foot traffic poses additional concerns as they house valuable equipment and personal belongings, not to mention cash collected during events. That makes these places tempting targets for criminals, and spending by schools and colleges on security is expected to double by 2018.<sup>2</sup>

Many schools and places of worship continue to keep doors unlocked so visitors can come and go as needed. The open-door policy makes access convenient for children, parents, volunteers and members of the religious group or school community. Unfortunately, visitors up to no good have open access, too.

### Simple Security Measures

On top of these risks, schools and religious organizations face

unique financial challenges. But not all security improvements require significant investments in technology or personnel. These can be identified and evaluated with the help of an experienced professional. Among the options:

- Visitors can be required to check in with employees before gaining access to areas housing children and teachers or clergy.
- Schools and religious organizations can require use of badges/photo IDs to identify adults who are authorized to be in a building.
- Churches, synagogues and other places of worship can make their facilities less inviting to criminals by enhancing lighting, removing shrubbery and other places to hide, and generally creating an occupied appearance.<sup>3</sup>

Even by taking these precautions, schools and religious organizations may need additional security to proactively protect the community. That's where today's technology can help.

### Securing the Campus with Technology

Some schools are spread out



geographically with multiple buildings, making a security director's work more difficult. To enhance safety, schools rely on technologically advanced systems:

- More than half of school leaders say they plan to purchase more electronic security systems.<sup>4</sup>
- Video surveillance is the choice of more than three-fourths of campuses.<sup>5</sup>
- Two-thirds of campuses use access control.<sup>6</sup>

Video surveillance systems can deter criminals and expand how much area employees can monitor. Schools can use video surveillance to monitor entrances, hallways, parking lots, gyms and cafeterias, and the perimeters of their property. When needed, video systems can trigger alarms, and their recorded data can be quickly searched to retrieve evidence needed by law enforcement agencies.

More important, video systems can supply critical information so that school and religious leaders can alert their staffs and other people in a building, and provide directions about how and where to respond.

Today's technology can deter criminals by making it possible to keep doors locked at all times. Security technology works so well that 88 percent of schools control access to buildings during school hours.<sup>7</sup>

ID badges can also serve a dual purpose when combined with access card readers and computer-

controlled locks, which are opened only with electronic cards distributed to those who have been granted access.

An added benefit of the access control technology: Managers know who and when someone entered a building or room because each card identifies the student or adult authorized for admittance. For example, offices or rooms holding private records or money collected from donations and events can be better secured by restricting access with a card system to only a few trusted employees or volunteers.

Such technology creates another layer of security that's an important upgrade from a metal door key, which give teachers, staff and volunteers access to all or parts of buildings. If a traditional key is lost, anyone can find and use it to gain entrance. However, if an electronic key card is lost, the building manager can quickly render the card unusable by issuing simple commands with a computer or mobile device. Then, a new card with a different access code can be issued.

As schools and religious institutions rely more on technology to improve security, their leaders can help protect their premises in four ways:

- Monitor video surveillance of their campuses.
- Control access to buildings, individual offices and classrooms.
- Respond to alarms and direct staff or alert authorities.

- Manage security systems remotely.
- And with today's technology, they can manage staff access using laptops, smartphones or other mobile devices they already own and know how to use.

### Protecting Your Community with Technology

School administrators, leaders of religious organizations and members of their communities want the peace of mind that comes with knowing that access to their campuses and buildings is controlled and monitored in ways that preserve their traditionally open nature.

In recent years, school and religious leaders have become more proactive to address campus risks. These leaders, however, can use insights and recommendations from a trusted security partner. This professional should have experience with the most effective and affordable security systems available, and share the passion for the safety of students, faculty, staff, worshipers and visitors.

TycoIS provides local experience combined with innovative commercial-grade solutions to help schools, colleges and religious organizations better protect their people and properties against a unique range of growing threats.

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

#### Sources:

<sup>1</sup>Allie Bidwell, "School Crime and Violence Rise," U.S. News & World Report, June 10, 2014.

<sup>2</sup>"The Global Market for School Security Will More than Double by 2018," TechNavio, November 19, 2014. <sup>4</sup>"Keep Your Church Safe," Christianity Today, March 25, 2014.

<sup>3</sup>"Keep Your Church Safe," Christianity Today, March 25, 2014.

<sup>4</sup>"Indicators of School Crime and Safety: 2013," U.S. Department of Education, National Center for Education Statistics (2014).

<sup>5</sup>Ibid.

<sup>6</sup>Ibid.

<sup>7</sup>"Indicators of School Crime and Safety: 2013," U.S. Department of Education, National Center for Education Statistics (2014).



# Keeping watch on Chalong Subdistrict Municipality

## Background

One of the eight subdistricts in the capital of Mueang Phuket, Chalong, is located in the southern part of Phuket Province, Thailand. The Buddhist temples here have drawn many tourists, contributing to its high human traffic flow. This has also led to increased crime and accident rates, as well as rising concern over public safety.

## Solution

To ensure public security and safety, Chalong Subdistrict Municipality has put in place various city surveillance initiatives. The Municipality wanted to implement the advance video surveillance technologies that met international standards to improve and reinforce the existing city security.

In addition, the Municipality wanted a reliable service provider to handle the installation and after-sales service of its surveillance needs. Knowing that Bosch offers comprehensive portfolio of innovative, reliable, high-quality products and systems for implementing a city surveillance solution, as well as its excellent reputation worldwide, the client turned to the brand to provide the solution.





The Bosch team worked closely with the Mayor and Member of Parliament for Chalong Subdistrict to put together a video surveillance system that met the Municipality's needs. After the detailed evaluation of the project requirements, AUTODOME 7000 high- definition (HD) dome cameras and DINION HD day/night cameras (NBN-832V-P) were selected, along with various accompanying equipment for the setup of its CCTV system. These included pendant arms, megapixel and HD lenses, outdoor camera housings and mounting units, as well as DIVAR IP 7000, digital keyboards and standard application servers.

The Bosch team and its installer, Brilliant Tech Limited Partnership, installed the equipment in the public areas to effectively manage the security and safety of the lives and property of tourists and residents in Chalong Subdistrict.

### Conclusion

The installation of the new CCTV city surveillance system enables the authorities to enable faster detection and prosecution of crime and accident and thus effectively reducing the crime rate in Chalong Subdistrict.

The Bosch CCTV system is reliable, stable and easy-to-use, while Bosch and Brilliant Tech's after-sales service is also fast and efficient. Chalong Subdistrict Municipality is extremely satisfied with the newly installed system and the after-sales service provided to them.

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



# Bank Mandiri Entrusts Video Surveillance With Bosch



## Background

Bank Mandiri, headquartered in Jakarta, is the largest bank in Indonesia in terms of assets, loans and deposits. Established on October 2, 1998, Bank Mandiri acquired ownership of the share capital of four state-owned banks, which legally merged on July 31, 1999. The Bank serves millions of customers, which makes it one of the largest retail banks in Indonesia. Due to the highly sensitive business nature and cash flow transaction over the counters daily, a security surveillance system is crucial to monitor and mitigate the risk of robbery, fraud and vandalism and management of different access authorizations for Bank Mandiri.

Bank Mandiri has been using Bosch security systems in protecting the bank's assets and to safeguard their employees and customers in the bank headquarters at Plaza Mandiri and 4 other branch offices in Jakarta since 2002. With the advancement into IP surveillance, Mandiri is looking to upgrade their existing analog system to IP-based system to provide the bank with more advance functions and integrated solutions.





### Solution

To minimize their upgrade expenditure, Bosch partner, PT. Sinar Teknik Sarana, offered a hybrid solution, featuring Bosch recording solutions combining the existing Bosch BRS Station, mix of analog and IP DVRs and the Bosch VMS to provide seamless management of the digital video, audio and data across the network. In Plaza Mandiri, there is now a total of 900 analog and IP cameras, which will be gradually be migrated over to IP technology. The system provides complete and consistent protection of the entire building from the entrance and exit, lobby, teller/counter, ATM, restricted access in the administration areas to the

carpark and the building perimeter. The security staffs are able to monitor the onsite security status from the security control rooms and bank personnel with restricted access to the security systems.

The Bosch Public Address system that comprised of 1500 units of LHM 0606 ceiling speaker was previously installed in Plaza Mandiri to provide background music and evacuation message during an emergency.

### Conclusion

Agus Triwianto from the Security Service Department of Bank Mandiri said “Having been using Bosch products since 2002, we are confident of the quality and reliability of Bosch products.” Coupled with the excellent after-sales service provided by PT. Sinar Teknik Sarana, Bank Mandiri is very satisfied with the installation.

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



# Raytec Transforms Security for the National Bank of Romania



**R**aytec LED lighting has transformed security at a multi-site installation for the National Bank of Romania. As part of a large upgrade to an IP surveillance system, both Infra-Red and White-Light solutions were deployed to deliver a huge improvement to surveillance image quality at night, and to create a safer, more effective working environment.

## Background

Security at the bank is strict, especially at the headquarters. The perimeter and access corridors are monitored by the bank's camera

system 24/7, but previously they were much more vulnerable during the hours of darkness.

The previous surveillance system, using analogue cameras, had no professional lighting – making use of street lighting where possible. The images were dark and grainy with an uneven light coverage making facial recognition totally impossible. It was also very difficult to raise accurate alarms based on the poor information in the images.

Leading and managing the upgrade project was distributor Lantec, who urged the move towards the

Raytec LED surveillance lighting and Mobotix MP IP cameras. “We have worked with Raytec for over ten years”, comments Radu Cristea, Lantec General Manager, “and we knew that their LED lighting would be the best solution to help the new IP cameras deliver a very high level of detail at night. Having never used video surveillance lighting before, the customer was also very attracted to the fact that the Raytec illuminators offered a ten year life and needed zero maintenance”.

## Solution

Working together, Lantec and



system integrator Rasirom specified Raytec's RAYMAX Infra-Red illuminators for use around the perimeter and both internal and external access ways. The final night-time images are a vast improvement. Every image is evenly illuminated and shows exceptional clarity and detail - with no bright or dark spots. The detailed images are also helping the cameras' inbuilt analytics to detect and analyse incidents more accurately, resulting in fewer false alarms.

"The bank is very satisfied with the

night time images and reliability of the information generated by the Infra-Red lighting" confirms Radu. "They are especially pleased that they can zoom in on any subject anywhere in the image in great detail. It's also an added benefit that the IR is invisible and does not cause additional light pollution".

Lantec also recognised that they could solve some of the bank's additional security needs that extended beyond surveillance, by introducing some of Raytec's specialist visible White-Light solutions.

In particular, some of the branch cash processing centres and under vehicle check areas suffered from poor visibility as a result of little natural lighting. This made operations and inspection very difficult. To address this weakness, Raytec's ceiling mounted Urban Bay lighting was installed in the cashing areas, along with simple low-voltage VARIO lighting mounted at ground level in the vehicle inspection bays. The result is a highly targeted illumination delivering a brighter, more natural lighting environment that makes it easier and quicker to perform tasks more accurately.

### Conclusion

David Lambert, Raytec MD (joint comments: "We're delighted that with the help of our long-term partner, Lantec, we've been able to help the bank to solve so many different security issues with LED lighting. Whilst good camera lighting is essential for night-time surveillance, lighting for people is just as important for ensuring the best safety, productivity and operational effectiveness at all times."

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



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# Phoenix Police Secure Multi-City Sporting Events with Open Platform Video Management Headline

**M**ilestone IP video plays central role in bringing together systems and agencies for security, visibility and crowd management during regional events

## Background

Copenhagen -Milestone Systems, the open platform company in IP video management software (VMS), is the solution of choice for the Phoenix, Arizona, Police Department after successfully securing several major national sporting events in 2015. Coordination involved multiple cities and government agencies over the events that drew more than half a million people to the Phoenix/Glendale/Scottsdale area. Milestone provided the flexibility needed for this combined effort to manage crowds, minimize incidents and keep the general public safe.

Working with a grant from the Department of Homeland Security (DHS) and other funding sources, Jason Tyre, a member of the Phoenix Police Department, the Homeland Defense Bureau and the Arizona Counter Terrorism Information Center (ACTIC), headed up a team that devised a comprehensive security solution. Milestone XProtect VMS was at the heart of the operation.

## Solution

Tyre and his team based operations at the multi-agency coordination center (MACC), a dedicated command center where officers monitored cameras, sharing information with federal authorities, transit officials, city and county police, fire departments and other security officials. There was a dedicated network fiber path between Phoenix, Glendale and Scottsdale, which Tyre and Phoenix PD Sergeant Anthony Jones cite as a critical factor in facilitating the flow of information among the cities and agencies.



“We tracked all sorts of incidents downtown, and provided our people with real-time info on exactly the best course to mitigate a situation,” said Tyre. “With this allocation of resources, we were able to locate individuals and assess situations quickly and effectively through the Milestone interface to the cameras.”

During the week of the events in downtown Glendale, the city of Phoenix hosted a variety of activities including large concerts. These shows drew large audiences resulting in significant crowd buildup. Phoenix PD had to address a variety of incidents, such as pickpockets, lost children, alcohol-related violations and suspicious packages. Milestone Mobile



enabled officers on the street to view and push video on their phones and tablets for appropriate and fast response.

With Milestone, Tyre and his team also had a solution that allowed them to monitor real-time calls for service. They were able to locate police vehicles across the entire security perimeter, plotting camera locations throughout the area. They could click on a camera view in the Milestone Smart Wall and immediately see the video feed from that location.

The department has already implemented lessons learned during the initial events, applying them to the college football championship held there, as well as the national college basketball tournament.

### **Conclusion**

“We’ve worked out many of the earlier kinks in communication and responsiveness,” said Tyre. “Everyone on this team worked hard to build relationships and improve capabilities. We can anticipate what’s needed and gain traction well before the events get started.”

This Phoenix PD technology solution for the Public Safety Sector won an STE Gold Innovation Award in 2016, which was announced at the Secured Cities event sponsored by SecurityInfoWatch.com, Security Technology Executive and Security Dealer & Integrator magazines.

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



# Cornhusker Bank Banking on a Unified Approach with Security Center

110-Year Old Bank in Lincoln, Nebraska Standardizes on Genetec Security Center for Access Control and Video Surveillance across Six Branches and a Technology Center

## Background

Established over 100 years ago, Cornhusker Bank has been committed to serving the personal and business banking needs of Lincoln, Nebraska. This privately owned bank has six locations throughout the city; a technology center and three part-time offices in local retirement residences. Entrusted with the financial assets and daily transactions of its customers, Cornhusker Bank implements strict security policies and takes every measure to protect its establishments, patrons and associates from harm, theft or scams. Over time, surveillance systems changed and as technology improved, the bank found itself with a mix of older analogue and newer IP video systems installed across its locations. Although the systems were working, some equipment and technology were becoming obsolete.

To Royce Jeffries, Vice President of Security and Risk Management at Cornhusker Bank, this was an opportunity to implement a better; more unified long-term strategy across all facilities. At the top of his wish list was consolidation of video surveillance and access control under a single platform, as well as setting up a solution to centrally monitor all facilities. Jeffries also wanted to enact a plan that would



allow the bank to gradually expand and improve its security year after year.

## Solution

With a phased growth plan in mind, Cornhusker Bank turned to Prime Communications, a certified security solutions provider, who helped the bank move forward with Security Center, the unified security platform from Genetec. To ensure customer satisfaction, Prime Communications provided a complete system upgrade design, indicating exactly where all the

camera fields-of-view would cover before installation.

“Security Center offered a robust solution that supported the different cameras we already had installed, and that allowed us to combine video and access control operations to handle multi-branch investigations from a central location,” explained Jeffries.

## *Unifying for Tighter Control and Better Security Operations*

Today, Security Center has been installed at six bank locations,



including the technology center. Genetec Omnicast, the video surveillance system in Security Center, manages over 100 cameras across all sites. Synergis, the access control system of Security Center secures, manages and tracks all access to the doors within the bank's technology center, sensitive areas of the main branch and access to their datacenter.

Slowly moving from locks and keys to an IP access control system is helping Cornhusker Bank realize tighter control over branch access. With support for dual-authentication in Synergis, the bank was able to implement both a proximity card and PIN authentication for employees to gain access. In the event of a lost or stolen card, the facility would still be protected by a PIN code entry.

Another notable advantage for Cornhusker Bank has been having all security information under one platform. On the video side, the detailed design provided by Prime Communication ensured camera coverage for all entrances, tellers, cash handling and other pivotal areas inside and outside the facilities. Locations with drive-through tellers received some extra attention to clearly capture vehicle descriptions, license plates and driver faces in hopes of protecting customers who fall victim to fraud.

Each location has dedicated local storage for video recordings and Cornhusker Bank is using the on-motion recording to minimize storage use. When movement is detected, the IP cameras from Axis Communications will record video and store it on local media where video remains for investigations for a set period of time.



Video Trickle feature is used on limited cameras where local storage is not practical. Omnicast will trickle the recorded video to a remote archiver for storage, allowing the data transfer to occur after hours when other critical system are not monopolizing the network.

## Conclusion

### *Leveraging Security Center to Speed Up Investigations*

While Cornhuskers Bank has immediately begun benefitting from the perks of the new system; the entire community are also reaping many shared benefits. Cornhusker Bank receives frequent requests from local law enforcement to pull video for other crimes around the facilities. During investigations, Jeffries can access the video from Omnicast without any interruption. "It's a new system with far more capabilities, but it's been simple enough to go back and look through video to determine what happened, and then quickly export the video to fulfill law enforcement requests," added Jeffries.

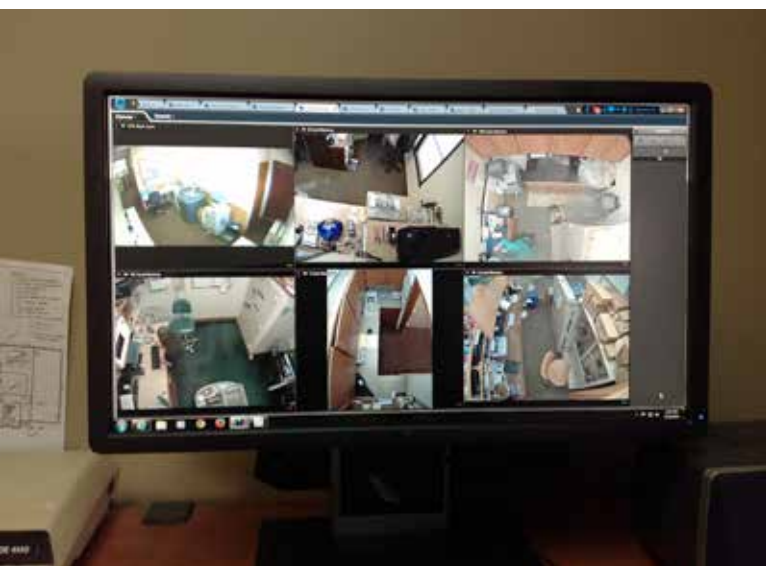
The Security Center Mobile feature has also proven to be very useful for investigations, allowing Jeffries to quickly log on with his iPad or laptop from anywhere in case an intrusion alarm goes off.

### *Moving Ahead with More System Unification*

The ease of scalability and flexibility of Security Center has allowed Cornhusker Bank to grow its new system, one branch at a time. Over the next 12-36 months, expansion plans are expected to continue as the last branch will be moved over to Security Center and Synergis and extended to all locations. The bank is also hoping to unify its Digital Monitoring Products (DMP) intrusion detection system within Security Center.

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

**SST**





# India's Largest Television Company Deploys HID Global Mobile Access, Gains Improved Security and User Experience

## Background

Star India is the country's largest multimedia entertainment company. Founded in 1991 as STAR India with headquarters in Mumbai, the media conglomerate creates more than 20,000 hours of content annually for over 50 channels in its network. Star India caters to a diverse audience, producing programs in eight different languages that are broadcast to over 100 countries around the world.

With thousands of employees, Star India sought a new solution that provided advanced yet convenient access control for staff at its headquarters. The solution needed to also improve security and be easier to manage by the company's security personnel. According to Sumir Yadav, Senior Vice President (Administration and Facilities), Star India, the company relied on smart cards for building access in the past. The cards were easily damaged and often misplaced, resulting in costly re-issuance of badges. Another weakness of the card-based access system was its inefficiency. Each new or replacement card had to be provisioned manually, costing Star India time and money as it continued to grow over the years.

With the popularity of smartphones and other smart devices soaring in India in recent years, Yadav started to look for a new solution that could enable Star India to make use of

employees' smart devices for better physical security. "Mobility has always been rated highly in our offices, so from the get-go we knew the new access control solution had to work with smartphones," added Yadav.

## Solution

Working with Chubb Alba, an India-based security solutions integrator and HID Global partner, Star India revamped its security system in its Mumbai headquarters with HID Global Mobile Access, powered by Seos®. Star India has deployed 2,500 Mobile IDs onto staff member smartphones and has procured mobile-enabled iCLASS SE® R10 contactless readers for use at gates and doors throughout the 32-story building. The deployment, from the initial planning to the solution going online, took Star India only 12 weeks, and has been in operation since January 2016.

"As the nation's largest multimedia company, we have extremely high standards when it comes to security. HID Global, known for being the market leader for access control solutions, was able to fulfill all of our requirements. The new solution from HID Global lets us take advantage of technology in this mobile-first age and achieve better security without being intrusive or compromising on user experience," said Yadav.

HID Global Mobile Access utilizes



existing mobile technologies for a user-friendly access control that is convenient to use, easy to deploy and simple to manage. Supporting smart devices running the latest iOS and Android™ operating systems, HID Global Mobile Access enables Star India employees to unlock doors and gates with their mobile device using a simple tap or the HID Global patented "Twist and Go" gesture.

Mobile IDs are at the center of the solution. Since they are provisioned via a robust online portal, Mobile IDs can be easily changed, issued or revoked by any of Star India's own administrators at a moment's notice. The company's breakthrough Seos® credential technology ensures that end-user identity data stored on Mobile IDs is protected using secure data encryption.

To enroll an employee into the system, the administrators at Star India need only send an email invitation to the staff member,



which prompts the recipient to download the HID Global Mobile Access App. Upon entering the activation code into the App, which is included in the initial email, the user is logged into the system and authorized to use his or her smart device for unlocking doors and gates equipped with the mobile-enabled iCLASS readers.

**Conclusion**

The feedback on the HID Global Mobile Access solution from Star India employees has been generally positive. “Those who have tried it love it. Now with my phone in hand, I can go wherever I am authorized

to go with a simple gesture,” added Yadav. “The management team also receives better data on our staff’s time and attendance, as people tend not to lend their phones other colleagues just to check in at work – they would rather be on time.”

Migrating to HID Global Mobile Access has provided Star India with a host of benefits. According to Star India employees, the user experience that HID Global Mobile Access provides is far superior to the previous card-based system. In addition to making it possible for staff members to use their own smart device of choice, Star TV India no longer has to maintain

an inventory of Physical access cards, or designate staff to manage them, which saves the company time and money while reducing the company’s environmental footprint.

Star India is currently exploring its options to expand the use of HID Global Mobile Access beyond opening doors and gates to include accessing its staff canteen and collaboration spaces, as well as to manage visitor access. In addition, Star India is considering HID Global Mobile Access to enable secure network printing in the future.

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



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# A Look Ahead for The Security Industry in 2017

By Pierre Racz, President, Genetec Inc.

2017 will be an important year for Genetec™ as it marks our 20th anniversary in the security industry. When we started in 1997, organizations were using analog technology. The extent to which digital was used was still only for point to point transmission systems, and video quality was limited by the resolution of NTSC or PAL formats. Internet Protocol (IP) technology was still in its early days, yet we had the intuition and vision to recognize the potential.

One of the key insights of Genetec engineers was that we saw packet switch networks would change the network architectures from point-to-point to point-to-multi-point, using multi-cast. This architectural change made redundant network operations centers affordable to a larger segment of the security industry. Analog tape retention periods were measured in hours. Even by stretching the video tape retention period from two hours to eight hours resulted in improved storage needs, the converse effect was greatly reduced video quality. Soon, the oxide on video tape wore away and rendered all recordings unusable. So, the idea of having 30 days' video retention without complex (over-engineered) mechanical Rube Goldberg tape exchange mechanisms for analog video was very expensive.

## IP Storage, Transport and the Cloud

Over the past 20 years, we have been able to realize greater retention periods for captured video data as compression standards evolved from H.261 to today's H.265 formats. Storage has gone



from a handful of days to 30 days, with a new trend emerging of storing data for up to 730 days. This is made easier and more affordable as organizations can now host their data on-premises and are increasingly appreciating the benefits from Cloud and hybrid (on-premises and cloud) storage solutions.

Going into 2017, Genetec will continue to provide its customers the technology and tools that will help them to realize a secure, open-architecture and unified physical security platform.

Genetec will work with both its integrators and customers to raise the awareness of Cybersecurity. Ensuring cyber security is not simply a camera or sensor device problem; it's a lot more involved than simply telling the IT department to make sure that devices are properly secured. The responsibility has to be taken by the companies who sell, install and operate the technology. 2017 will be a year of awareness about cyber

security and accountability. The burden of responsibility needs to rest with the people who make us think we are secure when in fact we are not.

Cyber hacking has evolved from relatively harmless pranks in the late 90's and at the turn of the century, to full on cyber-criminality and for-profit hostage schemes, along with state sanctioned spying and cyber espionage. While spying is a recognized practice for most governments, cyber-espionage is being increasingly used to steal economic data and other companies' intellectual properties (IP), bypassing the requirement of hard work, innovation and research and development.

Cyber threats to security have grown over the years, and the increased inter-connectivity made greatly possible by the internet-of-things (IoT), brought many new sensor hardware devices into the market, often with little or no network protection. Our major concern across the board is cybersecurity and the growing need for cyber insurance protection.

### Increasing Cybersecurity in 2017

Recent Botnet takeovers and distributed denial-of-service (DDOS) attacks in North America are an indication of just how far cyber-attacks can go. The 2014 cyber-attack on Target, an American retail giant, revealed just how important it is for organizations to pay close attention to the security of their security systems.

In the attack on Target, between 70 to 110 million customers had their payment information exposed through a data breach. During the investigation afterward, it was determined that the hackers first gained entry to the corporation's system by compromising the access from a 3rd party vendor—the heating and air conditioning (HVAC) contractor.

This highlights the fact that, for many systems, one of the biggest vulnerabilities comes from edge devices. As an open-architecture company, we are fully aware of this vulnerability and work to mitigate and eliminate risk. After all, while we can ensure the security of our solutions, Security Center, our unified security platform, supports over 70 camera companies.

Our design philosophy is to 'Fail secure'. For our part, we continue to make it as difficult as possible for our end-users to misconfigure their systems or leave keys or doors open to cyber-threats. And we believe that it is important to work with technology partners to help point out potential hardware vulnerabilities and to



assure that their devices do not become weaponized for botnet takeovers or DDOS.

It is also important to be transparent in the identification and treatment of devices with increased cyber risk factors. As a company that delivers open-platform solutions, we recognize that we must be vigilant in selecting the brands and devices that we endorse and support.

### **Security of Your Security System**

Making it much 'harder' for hackers to get into your Security System - Of course, increasing the security of edge devices is just part of the solution, and 2017 will see an even greater focus on maintaining the security of physical security systems. The industry must continue to support organizations in their efforts to stay safe from cyber-threats and attacks by helping them 'harden' their systems against unwanted and unauthorized access. To protect data and privacy, we apply many different layers of defense and protection, including encryption, authentication and authorization. By focusing on Hardening the Physical Security Systems we have to be sure that we have three elements: people, processes

and systems. We have to make it 'hard' for people working within a security network to make mistakes and accidentally or purposefully open a 'door' that could be exploited for hacking. Encryptions is only one of the arrows in our tool box to keep the security system safe. Many times, a hacker does not have to break access encryption, they can mimic the process we follow for authorization and once they have the access credentials, they are in.

Naturally, organizations will continue to use encryption to protect private information and sensitive data as well as enhance the security of communication between client apps and servers. Encrypting data helps ensure that, even if an unauthorized person or entity gains access to a system, the information itself will remain unreadable without the appropriate key.

To keep unauthorized entities from gaining access to a network in the first place, organizations will also continue to employ different forms of authentication, the process of determining if an entity—user, server or client app—is who it claims to be, including username/password combinations, tokens, and certificates that identify trusted 3rd parties.





## Privacy in 2017

With increased integration and collaboration between systems and organizations, more entities are interacting with physical security systems and accessing privileged data. In 2017, we will see organizations increase their efforts to control who sees their data and what they can do with it.

With our close development relationship with KiwiSecurity, a video analytics and privacy company, we are now the leading globally recognized authority on privacy masking and analytic cameras. The process of privacy masking can automatically obscure individuals and vehicles through pixelation in live and recorded video. Our tools assure that a fully visible, high-resolution version is captured, encrypted and stored while the real-time masked feed is monitored.

The integration of the KiwiSecurity solution with Security Center and its user access rights management tools helps organizations protect the privacy of individuals in both public and private environments, within view of surveillance cameras without sacrificing security.

## Enterprise Shaping Technology

### *Retail Business Intelligence & Analytics and Decision Support Systems*

Other trends we see for 2017 include organizations gaining more return on investment of their video surveillance system by collecting analytics and customer intelligence gathered by their physical security systems. In January, Genetec will introduce a Retail Business Intelligence system that will offer insightful people counting, flow-management, and customer retention data. Significantly, the system will include analysis features that provides end-users with easy-to-read reports on their business.

In 2016, Genetec released Mission Control, a decision support system that will meet the industry's continued need to support security professionals in an increasingly complex world. Mission Control provides excellent operational intelligence by offering a clear path to better decision-making with tools that analyze and qualify data from thousands of sensors and security devices in real-time.

Mission Control is designed to help security professionals keep a professional and calm when dealing with incidents, unplanned events or emergencies by taking human emotion out of the equation in high stress situations. The system can integrate standard operating procedures

(SOP), and will play a big role in offering each company their own custom way of managing unplanned events. We have already moved well beyond the paper-based instructions usually found in a large binder. Mission Control will offer methodical and automated benefits of integrated SOPs, which will continue to advance in the year to come.

In addition to work efficiency, cost and compatibility advantages to be gained when an SOP is integrated with a decision support system, Mission Control can also measure reaction time and monitor how precisely the security operator followed SOP guidelines, to help learn from operational experience as a key advancement in security and business intelligence.

### *Better Protection Through Collaboration*

In addition to Genetec Mission Control, Genetec also released a new evidence management system. With the amount of digital content related to security operations, and increasing at an exponential rate, security departments and law enforcement are always seeking tools that help them manage and share data, and this need will continue and expand. Genetec Clearance, a cloud-supported subscription system, will help meet this need in 2017 and beyond.

Genetec Clearance helps manage the increasing amount of digital case evidence from PDF documents, audio recordings of interviews, captured video from surveillance and body worn cameras and the many additional digital assets shared by public and private contributors. It allows for the secure collection, management and sharing of evidence from different sources. And it facilitates collaboration between security departments, outside agencies and the public to help law enforcement overcome issues relating to sharing and protecting data and also speeds up investigations in a cost efficient manner.

After 20 years of innovation, Genetec remains an independent, private company committed to providing our end-users with intelligent, unified solutions that help keep their assets, people and information safe. By helping them to 'harden' their systems against criminal cyber-activity, protect privacy, develop business strategies that utilize the data collected in their systems and collaborate with other organizations, we will continue to support all our end-users as they protect the things that matter to all of us today and every day.

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

**SST**



# AN INTERVIEW WITH JOHNATHAN LEWIT, CHAIR OF THE ONVIF COMMUNICATION COMMITTEE



**What are the roles standards (like ONVIF's) can play in critical infrastructure.**

The message is loud and clear. Security products that cannot connect to the IP network will disappear from the market. As the breadth of digitized information increases, the need to standardize the communication of IP based information becomes increasingly crucial so that we can keep pace with the increasing appetite for availability to that same information.

ONVIF is right in the middle of this with its technical specifications and resultant profiles. At the device to client level, ONVIF is helping to streamline the digitization and capture of information by providing a common interface for IP-based devices and systems to use to capture increasingly crucial information about the health and operation of those facilities and systems that are core to our everyday lives. At a broader level, ONVIF is also playing a role to simplify the sharing of information among the multiple systems in a facility, but also between systems being used at other critical infrastructure locations.

**Tell us more about ONVIF's work with the IEC.**

ONVIF has been working closely with the IEC to further its mission of becoming the single interface for IP-connected security. By working with the IEC, ONVIF is able to reach a broader audience and ensure further collaboration. ONVIF started its work with the IEC in 2011 with IEC60839-11-31 for Electronic Access Control Systems IP Transmission Protocols, and continued with EN 50132-5-2 later that year. Further updates to IEC would come in 2013 with the IEC 62676-2-3 standard for IP Video transmission protocols for video surveillance in security applications, followed by further revisions in 2016. Being involved in these international standards provides a legitimacy and foundation for ONVIF that further drives confidence in the security marketplace.

**How is ONVIF being used in the Internet of Things and safe city deployments?**

The Internet of Things depends on the successful deployment of "things" or devices. These devices digitalize the world for easier transmission, storage and cataloging. In many ways, the IP devices that make up a security system can be seen as some of the "things" that build the bedrock of IoT. The security market has established different methods to connect these devices for years. ONVIF has harnessed that knowledge and experience and created a single approach that reduces the load on manufacturers, while increasing the flexibility for system integrators and the end user.

**What makes ONVIF a game changer in the security market?**

ONVIF has really gained momentum in the past three to four years because it reduces the burden on manufacturers to create drivers to talk with every device their customers need. Now they can



gain access to the full complement of ONVIF devices compliant with the Profile relevant to their system. This in turn helps system integrators because they can be more creative when it comes to choosing the right component mix for their customers, while being confident that the pieces will play nicely together.

Lastly, end users have more freedom than ever before to not only choose the right mix of products initially, but to continue leveraging those products when their situation changes and they need to consider changing core parts of their system. The ONVIF specifications and resultant profiles are making it easier for organizations to protect their people, property and assets.

### **What challenges do you think the Asian security market will face as IoT takes precedence?**

IoT presents challenges globally. One of the biggest concerns with IoT is cybersecurity and the resultant risk to information privacy. There was a significant cyber-attack last October that was comprised of an army of edge type security devices being hacked to participate in a very large DDOS attack which knocked out many critical services for several hours. One report indicated that 80% of the devices were camera and DVR units that were compromised due to a hardcoded password deep in their systems. If people don't feel that their information is safe, the growth of truly game-changing IoT networks will be slowed.

### **Three factors that are essential to IoT deployments and successful physical security were discussed at Intersec 2017. (Cyber security, inter-disciplinary integration and interoperability) Could you tell us more about it and elaborate on what this looks like in everyday practical terms?**

Integration between agencies and using interoperability between solutions is a practice that has been evolving for years. ONVIF will continue to expand its specification and its Profiles to provide a foundation for this kind of communication. Cybersecurity is an ever-present concern as we expand the digital nets that capture our daily operations. Information is key to helping us make better decisions, but we have to weigh the risk of that information falling into the wrong hands against the utility it provides us.

The threat of attacks like the one last October will begin to slow adoption if we can't work together to develop appropriate processes, products and standards. Recognizing that security is not merely a product but also a collection of responsible processes is critical to success with IoT and physical security.

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





# AN INTERVIEW WITH GUY ROSEFELT, DIRECTOR, WEB SECURITY MANAGEMENT, NSFOCUS

## What are some of the challenges the Asian Security Market will face in 2017?

As more devices become Internet-enabled and accessible and the security measures in place continue to lag behind, the associated risks are on the rise. We have seen a growing threat against industrial and municipal IoT as leading manufacturers and grid power produce, among others, transition to Industry 4.0 without implementing sufficient safeguards. This can lead to theft of intellectual property, collecting competitive intelligence and even the disruption or destruction of critical infrastructure.

The cloud-computing infrastructure of today is one of the most successful developments in information technology. However, that doesn't mean these operators aren't just as vulnerable as every other organization. As Asian organisations rapidly accelerate cloud adoption in 2017, reprobates, hacktivists, nation-states, and terrorist organizations will likely take aim at the cloud in 2017, leading to some of the largest DDoS and ransomware attacks of all time.

## Why do you think launching an attack via IoT devices is getting popular?

As IoT devices contain high-risk vulnerabilities such as weak

passwords and these devices stay online without being attended – this makes them optimal targets for launching DDoS attacks.

In addition, IoT-based botnets employ attack approaches as effective as, if not more sophisticated, than traditional DDoS tools. The relative ease at which hackers can utilise hundreds of thousands of IoT devices to launch DDoS attacks is one reason behind the increasing trend of DDoS attacks.

At the same time, DDoS attacks are often used as a distraction tactic – taking the attention of the IT personnel away from the actual intent of an attack: deploying malware and stealing data.

While DDoS attacks are not new, the use of IoT devices to launch attacks proves that hackers are constantly finding smarter, faster and more sophisticated ways to launch their attacks – calling for greater security protocols.

## What are some of the common weak points for IoT devices that consumers need to be aware of?

Changing default passwords – most consumers don't think about changing a password after they've bought a new device. Simply changing the default password on your device can go a long way in

protecting yourself from a cyber-attack.

A simple example will be the wireless router you have at home. It comes with a generic password across all boards. Just taking a simple step to change the password would protect you.

## How can we protect our IoT devices against hackers?





It starts with education. For example how much do we know about cyber security and how to configure our router at home? The average person does not know much. The question is how do you educate the average consumer that just bought a cool refrigerator that can connect to the Internet or setup Wi-Fi cameras to monitor their home? Do you think the government could explain the issue within a 30 second public service announcement? Even if they could, how many people will fast forward through the announcement?

The best way to educate the average consumer may be to have their favourite television shows show an episode that highlights the issue. Only with education will people be equipped with the knowledge and awareness to protect themselves – which is far more important than any security measure put in place by the government or IoT device

manufacturers.

### How does having threat Intelligence data from China help SEA mitigate cyber-attacks?

The problem most organisations and governments face with subscriptions to commercial and open-source threat Intel feeds is that unfortunately, they are missing threat intelligence from a considerable portion of the world. Many studies indicate that up to 40% of the world's cyber-attacks originate from China. When considering how comprehensive a threat intel feed is, many of them do not include much data from China; since the organisations providing the feeds have little visibility into the attacks that begin or end within the borders of China.

As the only company with threat intelligence data feeds from China, NSFOCUS provides our customers

with complete global coverage to support their current threat Intel strategy. With complete visibility into the global threat landscape, our clients – both enterprises and governments – can rest assured that their organisation is less vulnerable to attacks – wherever they may originate.

### What are the common misconceptions people have about DDoS attacks and how they can be protected?

Traditionally, DDoS attacks are utilised to make a site or service unavailable to its intended users for some duration, making resources unavailable while the victim is scrambling to fix everything. However, there has been a rise in DDoS attacks being used as smokescreens to cover up other criminal activity, such as theft of intellectual property, banking and financial records, stolen customer data or even vulnerability probes. The intent here is not to shut down a particular website, but to distract security teams long enough so that the real attack goes unnoticed – at least initially.

In what was once a mere tool for taking down websites, DDoS attackers have found a new, useful application. Companies that have successfully thwarted attacks did so because they planned ahead and developed an action response plan, allocating resources to the proper channels and establishing it as a core part of the operations process.

This not only allows security teams to act quickly to limit the time an attacker has to carry out their mission, but gives them the knowledge to better understand and stop the attack. Should a business find itself a victim of an attack, it's critical to keep an eye open for other potentially suspicious activity.

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





**BOSCH**  
Invented for life

# Ensure Early Detection with **The DINION** **IP Thermal 8000**

In environments with limited vision due to poor lighting, smoke or complete darkness, the Bosch DINION IP thermal 8000 camera offers excellent thermal performance, built-in Intelligent Video Analytics and outstanding corrosion resistance (meeting the EN 50130-5 salt mist test, withstanding up to 1000 hours of salt/mist under test conditions). This makes it ideal for outdoor use in mission-critical applications such as perimeter protections of airports, critical infrastructures, government buildings and bridges.



## Early object detection

What makes the DINION IP thermal 8000 camera so special is the combination of thermal imaging and standard Intelligent Video Analytics at the edge. Combining these features makes the camera suitable for applications that require video content analysis over larger distances up to 762m. The state-of-the-art Intelligent Video Analytics enables the camera to differentiate between genuine security events and known false triggers such as challenging environments or applications that require video content analysis over larger distances.

The DINION IP thermal 8000 camera offers a choice in resolutions: QVGA or VGA. Configuring the on-board analytics is easy thanks to the built-in gyro sensor. This sensor provides the most important values needed for automatic set up – simply enter the height of the camera to complete the configuration process.

## Data Security

Bosch is driving a four-step approach to maximize data security by considering physical and cyber security. It involves creating trust, securing data, managing user access rights and meeting IT industry standards.

Because the camera is often the most remote outpost in a network, it is easily overlooked when implementing data security measures. We have several measures in place to secure our cameras. One measure is that all Bosch IP cameras feature a unique, built-in Trusted Platform Module (TPM). This safely stores all certificates and keys needed for authentication and encryption. Even in cases of unauthorized access, the TPM ensures that the keys cannot be retrieved.

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



# BOSCH

Invented for life

## Bosch DIVAR Recording Solutions Make Professional Video Surveillance Easy For Everyone

Small and medium businesses need a suitable recording device to make the complete transition to IP. For video surveillance systems that have already been switched to full IP, small and medium businesses may still face a challenge in finding a scalable recording solution.

Bosch DIVAR network and hybrid recording devices are specifically designed for 24/7 operation. These devices offer the ability to create video surveillance solutions with professional security features. The DIVAR solutions are completed with DIVAR network 2000 and 3000 series and the DIVAR hybrid 3000 are primarily standalone solutions for businesses under one location. The DIVAR network 5000 and DIVAR hybrid 5000 models are designed for easy mounting in a 19" rack, making them suitable for medium businesses and chains of stores that prefer hideaway installation in a separate server room.

### DIVAR network 2000, 3000 and 5000 models

For small and medium businesses that have gone digital, the DIVAR network 2000 (16 channels), 3000 and 5000 (both 32 channels) are cost-effective ways to invest in a future-proof IP video surveillance system that can be scaled to become durable. With the built-in Power over Ethernet (PoE) switch, connecting IP cameras to these network video surveillance recorders, requires no separate power adaptors, making installation quick and easy. The PoE switch can supply power to a maximum of 16 connected cameras. Each camera automatically receives its IP address from the recorder to enable simple plug-and-play operation.

### DIVAR hybrid 3000 and 5000 models

The DIVAR hybrid 3000 and 5000 models are cost-effective recording devices for businesses with an



existing analog video surveillance solution that they would like to upgrade to IP one step at a time. It is possible to replace all analog cameras over time, as all 32 available channels can be equipped with network IP video surveillance cameras. A maximum of 16 analog cameras can be connected to one DIVAR hybrid-recording device. Both hybrid models offer the same interface and user experience as the well-known DIVAR AN family, guided by simple menu selections and operator commands. This allows businesses to decide the pace of transition.

To remain future-proof, the DIVAR network and hybrid recorders enable easy monitoring and configuration. It is easy to watch live footage, playback recorded content, or reconfigure local unit settings anytime from anywhere via the DIVAR Viewer app, available on smartphones (iOS and Android), and via the web browser. The DIVAR Viewer app can also control the pan, tilt and zoom functions. The Bosch DDNS service enables users to name their recorder, making it easy to locate the recorder without using an IP address.

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



# Antaira Technologies Increases Public Safety with Ethernet Networking Product Solutions

As technological advancements abound, more public places contain risk factors that threaten daily life. Take factories, gas stations, amusement parks and concert halls for example. Such places are often full of flammable vapors, gases, dusts, fibers and other kinds of ignitable concentrations of hazards, posing a constant threat to the public. IP-based surveillance systems have become universal and as such, data communication between detectors, sensors, access control, intercoms and other devices are indispensable to the whole system. Antaira- a leading developer and manufacturer of Industrial Networking Products- improves not only industrial security but also public safety. Antaira now provides a series of Industrial Ethernet Networking product solutions with UL certification to increase safety standards (ANSI/ISA-12.12.01, CAN/CSA C22.2 NO. 213-15 & UL 61010).



Antaira's Industrial Ethernet Switches are compliant with the UL standard: Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations. Wherever flammable vapors, gases, combustible dust and other ignitable substances exist in closed containers or in environments where hazards are caused by frequent maintenance, repair work or equipment failure, Antaira's UL-certified Industrial Ethernet Switches provide real-time data access among the devices. In doing so, they minimize downtime by supporting Jumbo Frame, PoE scheduling and remote PD alive monitoring. They also shorten trouble-shooting and rescue time. In addition, Antaira's Industrial PoE switches also adopt the power booster technique to support 12-36 VDC power input, resolving the existing problem of being unable to support the general PoE switches to provide reliable power supply and smooth data communication for onsite devices. Antaira's power of protection thus reaches deep into the automation and transportation markets.

To support more security applications in diverse environments, Antaira provides a series of Industrial Ethernet Switches with UL-certification, bringing about higher safety standards. Antaira provides IP Surveillance for factories, gas stations, amusement parks, campuses and other environments. Thus, reliable real-time data communication is ensured in public safety matters. At Secutech 2017 held in Taipei from April 12th to 14th, Antaira will be showcasing Industrial Networking Product solutions in a series of topics.

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



## Dahua Recognized by China's Good Design Award

China Good Design, as an international design award, conferred state level honor onto Dahua recently. Dahua's star product, "My eyes" industrial camera, has been awarded Gold Winner of CGD 2016. Simultaneously, "Seriations" multi-lens panoramic camera family, video conference system, indoor eccentric camera and serial 9 intelligent electronic door lock have been recognized as innovative Winners of CGD 2016. They stood out from 498 pieces of nominated products under the scrutiny of 12 international design masters. This is a strong certification of Dahua's industrial design capability and craftsmanship.



China Good Design Certificates



Dahua "My Eyes" Industrial Camera



Dahua Multi-Lens Panoramic Camera Family



Dahua Serial 9 Intelligent Door Lock

Dahua's attention to detail is evident in "My Eyes" industrial camera. It is small, sophisticated, has high-speed transmission, immunity to interference, and can deliver sustained stable HD images. It is widely used for product testing, medical, scientific, electronic semi-conductor, textile & printing, food, chemical and other industrial applications.

Dahua's Serial 9 intelligent door lock attracts many customers with its unique and fashionable mirror design.

Dahua's products, are aesthetically pleasing, provide great user experience and cater to specific needs of consumers. Made from solid material and fine finishing coupled with rich functionality and user experience, all of these products are customer favourites.

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



## Detectors and Sensors: KX15DTAM



**F**rom offices to living rooms, the KX15DTAM has it covered!

The premium detector of the KX range, the KX15DTAM is suitable for Grade 3 installations and boasts features like anti-mask and dual technology and much more... all delivered in the same stylish and consistent uniformed housing as the rest of the KX range.

Offering a smart, professional finish, the detector sits perfectly in any office, room or corridor.

### Ultimate reliability with Dual Technology

Consisting of both a Passive Infrared Receiver (PIR) and microwave sensor in one housing, both sensors need to be activated simultaneously to get an alarm condition. This increases stability and makes the KX15DTAM ready to detect in even the harshest environments, for example in entrances, hallways, garages or glass rooms where drafts and sunlight could be an issue.

### Enjoy Grade 3 installations with anti-masking technology

The KX15DTAM offers unique protection against attempts to mask the detector with a variety of materials such as cardboard, duct tape, spray or aluminium foil.



Not only that, but the KX15DTAM also features anti-blocking technology. This prevents the system from being set if there is anything blocking the field of view of a detector. Therefore the user must remove the obstacle before the system can set, ensuring maximum detection is maintained.

### Avoid false alarms thanks to Blue Wave Technology

It offers a wide variety of features, from Blue Wave Technology to digital temperature compensation, which all work together to improve the efficiency and lower the risk of false alarms.

Through advanced signal processing and 3D optics, Blue Wave Technology (BWT) improves the detectors immunity to infrared noise in the environment, allows it to adapt and minimise the risk of false alarms.

One feature of BWT is digital temperature compensation. This means that if the background temperature is near to the body temperature, the detector is able to digitally adjust its sensitivity to maintain its specified range and maintain optimum performance. This feature is ideal, for example, in summer when the temperature is likely to change.

Thanks to the automatic sensitivity feature, the detector can self-adapt to any change in environmental conditions to ensure that its performance and stability is maintained. This is ideal for locations such as conservatories or hallways where the environmental conditions are likely to change, for example, breezes and temperature drops.

Another feature of the KX15DTAM is Independent Floating Thresholds (IFT). These help to eliminate any electrical disturbance by ensuring that alarm thresholds are kept within predetermined limits.

The Optical 3D system improves the detection of moving targets to ensure that precise signals can be received from the PIR and allows protection of the area below the detector. Areas such as corridors or hallways will especially benefit from this feature as people are frequently passing the detector.

### Adaptable, optimised and stylish

The KX15DTAM is created with 3mm polished ABS plastics, so not only does it provide supreme Grade 3 security, but it provides a stylish finish, consistent to the rest of the KX range.

The detector comes supplied with both ceiling and wall mount tamper proof brackets, allowing flexible mounting options, meaning that the detector can be installed to benefit the area. For example, if you were to install a KX15DTAM in a small room such as a living room or dining room, it would be more beneficial to mount it in the corner of the room. The brackets enable large volumetric coverage at installation heights up to 4m.

Finally, the sealed optics help protect the detector from possible infestation from insects, and shields air movement in front of the pyro-electric sensor. This improves reliability and decreases the risk of false alarms.

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



## Model: MicroDome® Duo Compact Twin-Sensor Megapixel Camera Series

By: Arecont Vision

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

### Product specifications:

- Revolutionary, future-proof design.
- The MicroDome Duo is a compact (71.9mm/2.83" height by 103mm/4.06" width by 163mm/6.42" length), light weight (0.88kg/1.95lbs) surveillance camera series.
- It is built on Arecont Vision's new installer-friendly enclosure design to further simplify positioning and installation.
- A single PoE IP connection is required, reducing wiring time and expense.
- The rugged, tamper-resistant, die-cast aluminum housing features two polycarbonate dome bubbles that are both IK-10 impact-resistant and IP66 weatherproof rated.
- The MicroDome Duo is ONVIF (Open Network Video Interface Forum) Series S compliant.
- Both sensors feature independent remote focus modules, mounted on 3-axis gimbals for outstanding viewing coverage.
- A single compact MicroDome Duo camera can be mounted on a wall or ceiling to cover two different views simultaneously.
- MicroDome Duo offers fast frame rates and a choice of 4, 6, or 10-megapixel resolution models.
- Each camera is available with lens options ranging from 2.1 to 16mm, providing the widest possible application requirements.
- SNAPstream (Smart Noise Adaptation and Processing) technology reduces camera bandwidth consumption in all MicroDome Duo models without impacting image quality.
- Due to MPIPE architecture on the FPGA, Arecont Vision cameras do not require the use of common operating systems.



### Uses:

- The MicroDome Duo series is designed for applications with challenging lighting conditions, featuring integrated, dual, day/night mechanical IR cut filters.
- For applications with strong backlighting, reflections from wet flooring, streets or puddles, or contrast due to fog, mist, or glare, optional Wide Dynamic Range (WDR) equipped 4- and 6-megapixel models are also available.
- Built-in CorridorView™ technology provides better coverage of hallways, corridors, and other narrow spaces without wasting pixels on unchanging areas.

## Model: High sensitivity network cameras with Exmor R™ CMOS sensors

By: Sony

① [www.pro.sony-asia.com](http://www.pro.sony-asia.com)

### Product Specifications:

- The eight new cameras provide cutting-edge image capture technology with minimum illumination of 0.006 lux.
- Clear detail and higher visibility with excellent low-light sensitivity.
- V Series: 1080p/60 fps, High sensitivity, View-DR, Audio, SD card, Easy Focus, PoE, AC24V/DC12V, Sensor Input/Output.
- E Series: 1080p/60 fps, High sensitivity, View-DR, Audio, SD card, Easy Focus, PoE.
- Equipped with high performance image sensors, lenses and image processors.
- They can capture images beyond the reach of conventional security cameras, for better visibility and greater accuracy.
- Sony's Exmor R™ CMOS sensor and eXcellent Dynamic Noise Reduction (XDNR™) technologies offer optimum clarity with noise and ghost free images.
- The technology allows the new cameras to achieve the minimum illumination figure of 0.006 lux (30IRE), 0.01 (50IRE), with camera setting at F1.2, View-DR Off, VE Off, AGC On, 1/30s, 30fps.
- Exmor R™ sensor allows captures of objects in the dark from a distance of up to 100m with the V-series and up to 60m with the E-series network cameras.
- Together with the powerful integrated IR illuminator, the cameras are able to capture high-quality IR images without overexposure.
- The SD card is a back-up option in the event of network outage where the camera loses connection. It can continue recording while the connection is being restored.
- The new E-series now supports 2-way audio features, providing users with remote intercom and audio recording functionality in a cost effective package.
- Sony's V and E-series range incorporate the same User Interface, usability and Network Video Management Software connectivity that is present in Sony's existing solutions.





## Model: i-PRO Extreme

By: **Panasonic**

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

### Product Specifications:

- Intelligent Auto Mode allows advanced image stabilisation steadies the camera to prevent blurred images.
- Intelligent sensitivity enables the camera to automatically adjust gain and shutter speed to adapt to the brightness and object movement in a scene.
- 144dB Enhanced Super Dynamic and Face Super Dynamic: High-performance face detection technology in the camera.
- Color Night View: Firefly night view enhancer technology transforms a standard 1/3-inch sensor camera into an effective low-light capable camera.
- Latest H.265 standard provides an 80 percent enhancement in compression when compared to H.264 devices, delivering high picture quality with half the bandwidth requirements and reduced storage costs.
- New H.265 enabled cameras include H.264 compatibility modes enabling customers to migrate portions of their system to the new standard at their own pace.
- New cameras capable of detecting up to 8 faces simultaneously can now be linked with new compression techniques to maintain the Region Of Interest (ROI) at a higher picture quality.
- A built-in self-learning algorithm enables the camera to predict where movements may happen and ensure the camera is responsive and effectively manages picture quality in real-time.
- HDD power control technology built into the new recorders powers down HDD's without risking recording loss.
- HDD life can be extended up to seven years (depending on environment and usage).
- Panasonic has expanded its deployment of Secure Communication Technology across its new line of i-PRO Extreme H.265 cameras, recorders and video management software.
- The Secure Communication Suite specifically protects against spoofing (false data), video tampering or altering (changing images), and snooping of protected surveillance communications (stealing passwords).



### Key enhancements include:

- H.265 Smart Coding (Smart Face Coding, Long GOP, Auto-VIQS,)
- Enhanced Super Dynamic 144dB at 30/60 fps (depending on model)
- Ultra-high sensitivity from 0.0008 lux to 0.015 in colour mode (depending on model)
- Auto Image Stabilization
- Max. 4 channel simultaneous H.265 encoding
- Touchable Rain Wash Coating (outdoor models only)
- Secure Communication with Symantec Certification
- Built-in IR LED (up to 100 feet)

## Model: Aero-PTZ (WV-SUD638)

By: **Panasonic**

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

### Product specifications:

- Provides Full HD 60fps imagery with a 30x optical zoom lens within a tough fibreglass body resistant desert weather conditions.
- Resistant to both erosion and salt corrosion.
- The camera features hybrid image stabilisation technology and gyro-sensors to minimise the effect of external vibrations on imagery.
- The super dynamic function ensures a wider dynamic range compared to conventional cameras.
- Designed for applications at height, at sea and on ports, piers and bridges.
- The camera's active sense technology responds to external conditions, initiating a built-in wiper, heater and defroster to continually capture the highest quality imagery.
- Aero-PTZ is equipped for installation at any kind of facility and produces sharp, crisp images.
- The 360° aerodynamic spherical design minimises wind resistance allowing the camera to operate successfully at wind speeds of up to 60 m/s.
- A 'radius bodyline' helps deter snow and dirt build-up on the light-weight, fibreglass body.
- The camera is IP67 rated and vandal proof to IK10 standards.
- It has a sphere pan-tilt mechanism allowing endless 360-degree panning and a 90° to -90° tilt range.



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Lighting Audio Visual Asia

LAVA is a one-stop entertainment technologies publication that covers the Asia-Pacific region, bringing you the latest news and information from the lighting, audio and visual solutions industries.

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## Model: RM-IP500 remote controller

By: Sony

① [www.pro.sony-asia.com](http://www.pro.sony-asia.com)

### Product Specifications:

- Gives operators easier and more intuitive control of Sony's latest pan-tilt-zoom (PTZ) cameras
- Designed to work with Sony's latest BRC-X1000, BRC-H900, BRC-H800, and SRG-360SHE PTZ cameras as well as the new MCX-500 all-in-one High Definition (HD) switcher.
- Supports SD card recording and IP streaming to create an easy-to-use event production system.
- Equipped with flexible zoom patterns, speed control options, presets and firmware upgrades.
- Features single-handed PTZ joystick operation and can be customized accordingly to users preference.
- PTZ speed can be easily adjusted with the controller's knob, and direct buttons are available for frequently used functions.
- New controller simplifies IP assignment for up to 100 cameras using the AUTO IP setting.
- The compact controller measures 306 mm x 159.3 mm x 224.1 mm, or 12 1/8" x 6 3/8" x 8 7/8" (without projection) and can be mounted on or in any console.
- The user can program up to 100 preset camera angles for precise, easy maneuvering.
- The RM-IP500 offers a host of control signal formats and control options including RS-422 and VISCA over IP as well as:
  1. VISCA RS-422 : RJ-45x 1
  2. LAN : RJ-45x 1, 10BASE-T/100BASE-TX automatically detected
  3. GPI I/O (Tally In/Contact Out) : D-Sub 15-pin type





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## Asia's Leading And Award Winning IoT Event Returns In March 2017

As the first dedicated platform in Asia to address the enormous potential of the IoT revolution, the first edition of IoT Asia in 2014 was ahead of its competition. It was seen as a transformational platform for addressing challenges and identifying real opportunities within the IoT landscape.

IoT Asia 2016 surpassed expectations and broke records. The event was a resounding success with 3,795 attendees, a significant increase of 75 percent from 2015! This is a testimony of the strong support the event has received from the industry. IoT Asia has won the prestigious UFI Marketing Award in 2016. Conferred by UFI, the Global Association of the Exhibition Industry, the Award recognises excellence in the branding of new trade shows. The UFI Marketing Award adds on to a growing list of industry accolades that IoT Asia has received since its debut in 2014. They are "People's Choice Silver Award for Event of the Year in Postscapes 2015/2016 IoT Awards" and "Trade Conference Organiser of the Year" for IoT Asia 2014 at Singapore Experience Awards 2015. IoT Asia 2017 continues to provide insights for 4,500

attendees across the entire IoT value chain, addressing the interests of technology solution providers and enablers as well as end-user and potential IoT technology adopters across multiple industries. The show will take place on 29 and 30 March 2017 at the Singapore Expo.

- As a key player in Asia's IoT community, IoT Asia 2017 will focus on
- Smart Cities
- IoT Data Analytics
- Design Applications
- Wearables
- Enablers
- Industrial IoT
- Cybersecurity (NEW)
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### What to expect at IoT Asia 2017?

- 5,000 square metres exhibition
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- Brand new conference programme featuring three new tracks, engaging panel discussions and country-focus sessions

**Exhibition Highlights**

Two new thematic zones will be introduced at IoT Asia 2017 – Cybersecurity and Robotics. This is where technology companies leading innovation in cybersecurity and robotics will be showcased.

Visitors to IoT Asia 2017 can look forward to meet exhibitors from two key feature zones – Institution Zone and Start-Up Exchange. Launched at IoT Asia 2016, the Institution Zone is back by popular demand! Visitors get to engage with professionals or students in Academia who will showcase their IoT-related solutions and projects. The Start-Up Exchange is a dedicated area for aspiring start-ups to showcase new lab-to-market IoT solutions and technologies. The Start-Up Exchange will feature start-ups from all over Asia disrupting the IoT market.



**Conference Highlights**

Underlining the 2017 theme Making \$ense in Our Connected World, the conference will focus on IoT’s value generation potential and opportunities from the perspective of:

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