The Future of Low Light Surveillance

Avoiding the Dangers of Counterfeit Fire Detection Devices

7 Things About Iris Recognition Systems

Advances in AI, IoT, Highlight 7 Global Tech Predictions for 2017

Boosting Control Room Operator Efficiency

Maths of Monitoring Gaseous Extinguishing Systems
Since its very beginning, Hikvision has invested heavily in building a first class R&D capability, which has laid a solid foundation for the company’s success. Over the past decade, Hikvision has embraced world-leading management practices and tools, such as IPD, CMMI and PDM, to continuously optimize the company’s product development process. Applying this methodology has led to the development of ‘best-in-class’ products and services that not only meet the needs of the industry, but are also quickly accepted by the market.
Visualize every detail in its original and natural form
180° panoramic camera without image distortion

Features
• 3 sensors in 1 camera and 1 IP address
• Seamless splicing technology for perfect image presentation
• 180° viewing angle without image distortion
• Easy installation to save cost both in cabling and labor cost
• All models come with IP67 & IK 10, designed for outdoor application
Dear Readers,

Greetings from MalaysiaSAFE!

All eyes will be on the Malaysian currency as we step into the new year. At the end of 2016, the Ringgit hit levels seen only during the 1998 financial crisis, touching a low of 4.475 against the US Dollar. Though there are concerns that this problem may land an impact on government projects as investors pack up, Finance Minister II Datuk Johari Abdul Ghani is adamant that the situation has not yet reached a state of crisis. The country will need to carefully manage this financial turbulence if it wants to bounce back quickly and the only way to do that is by encouraging a good investment ecosystem through exports and facilitating business activities locally.

Recently, police intelligence revealed that IS militants are now making plans to target firearm stores and armories at security agencies and public places. According to Inspector General of Police Tan Sri Khalid Abu Bakar, the security at 235 agencies including auxiliary police forces nationwide are very loose and need to be tightened in line with standard operating procedures set by the police. In view of this, Bukit Aman’s Firearm Licensing Department will need to carry out visits to ensure that these security agencies comply with the SOPs.

What is most alarming is that to date, out of that 240 already arrested for involvement with the IS militant group, 192 or 80 per cent are youths. According to the Ministry of Youth and Sports, those influenced by the radical ideology and extremism had shallow religious education and insufficient information about the extremist group. To curb this problem, the ministry has put in place three platforms – the first is to identify high-risk groups which may be susceptible to IS militant campaigning; second is to rehabilitate those who are radicalized; and the third platform is preventive campaigns in collaboration with religious authorities, police and the National Security Council.

Notwithstanding the economic and social challenges that the country will face in 2017, we are now all bracing and preparing ourselves for more festivities coming our way. The confetti may have just settled on Christmas and New Year celebrations, but come end of January, we will usher a new lunar year in the Chinese calendar. Team MalaysiaSAFE would like to take this opportunity to wish all our readers good health, prosperous opportunities and bundles of happiness. Have a safe and joyful celebration!

Till we meet next, stay safe, and happy reading!

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CONTENTS

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REGIONAL ROUNDUPT

5 Bosch Introduces Latest Starlight Technology
6 The 4th Edition of IFSEC Southeast Asia 2016
7 Think Smart, Think Protegus
8 GTC Secures the Safety of MEEC
9 IACSP ASEAN Security Symposium & Awards
10 Two New HD Video Surveillance Cameras from BOSCH

WHITE PAPERS

12 rayTEC

The Future of Low Light Surveillance

50

5 Criteria for Boosting Control Room Operator Efficiency

FEATURE ARTICLES

16 COLTRACO Ultrasound

The Mathematics of Monitoring Gaseous Extinguishing Systems

33 apollo

Avoiding the Dangers of Counterfeit Fire Detection Devices

18 IHS Markit

Advances in AI, IoT, Highlight 7 Global Tech Predictions for 2017

35 princetonIDENTITY

7 Things You Need to Know About Iris Recognition Systems

PRODUCT SHOWCASE

52 Sony’s New High Sensitivity Network Cameras with Exmor R™ CMOS Sensors
53 Safran Launches 2nd Generation Biometric Tablet: Morphotablet™ 2
54 Ez-Path® Fire-Rated Pathways
55 Dahua Launches Multi-Lens 180-Degree Panoramic Network IR Bullet Camera
56
• FLIR RSX-F Thermal Fire Sensor for Rail Coaches
• WD Branded SATA Client SSD
57 TDSi's New GARDiS Range
58 • VIVOTEK Adds MS8392-EV with Aesthetic Design
59 • Moxa Launches 28-Port Ethernet Switch
60 • Axis Introduces Durable Fixed Domes
61 • SH Extends the Power of C•CURE 9000
62 • PPSS Latest Bullet Resistant Vest
63 • Senstar New Version of FiberPatrol-ZR
64 • Artetsyn Launches 700 Watt Converter

INTERNATIONAL UPDATES

20-32

APPLICATION/ CASE STUDIES

37-49

CCTV NEWS

65-67
Bosch starlight cameras deliver the highest quality of relevant video surveillance, even in extremely low light conditions. From October, the starlight portfolio was further enhanced with improved light sensitivity, superb front and backlight compensation; higher frame rates as well as a wider choice of resolutions and form factors. Another compelling enrichment is that all Bosch IP 6000, 7000 and 8000 starlight cameras feature Bosch video analytics at the edge as standard, instead of an optional feature requiring no additional investment or license fees from the customer.

Bosch feels that the offering of video analytics at the edge as standard is now a necessity to cater to the ever-increasing demand for details and the proliferation of cameras. Bosch video analytics add sense and structure to video data already at the point of capture (at the edge), enabling users to effortlessly search through large amounts of video data and to pinpoint the information that matters most to them. In this way users can take appropriate action faster, easier and more efficiently. It also enables them to reduce network strain and storage requirements by streaming only the data needed.

The complete IP starlight camera portfolio from Bosch offers a wider selection of resolutions (720p, 1080p, 5 megapixel) and form factors including fixed box, fixed dome or moving dome cameras; as well as extremely rugged moving cameras for when conditions get tough. The starlight portfolio also offers higher dynamic ranges of up to 120 dB for perfect exposure in all lighting conditions regardless of front and backlight, as well as frame rates of up to 60 frames per second to easily capture fast moving objects.

In addition, the latest sensor technology, combined with sophisticated noise suppression, results in a light sensitivity of 0.0069 lux in color and 0.0008 lux in monochrome for the 1080p models. This enables starlight cameras to produce full color images in the dark beyond the point where other cameras have switched to monochrome. Where other cameras fail to show any image at all, starlight cameras are still capable of delivering detailed monochrome images.

Bosch’s video analytics at the edge enables starlight cameras to interpret data and to decide what and when to stream based on configurable triggers minimizing bandwidth requirements if needed. The end results are relevant alerts and key statistics which enhance the accuracy of the video surveillance system, providing relevant data for numerous security and non-security applications and substantially reducing the margin of error that comes with time consuming and labor intensive 24/7 human surveillance.

A full suite of Essential Video Analytics will be provided as standard without additional license fees on the DINION IP starlight 6000 fixed box and FLEXIDOME IP starlight 6000 fixed dome cameras at competitive price points. All IP 7000 and IP 8000 starlight cameras will come equipped with the state-of-the-art Intelligent Video Analytics from Bosch; a full suite of robust video analytics algorithms offering highest accuracy for the ultimate in vid-
regional roundup

EO Analytics. Like with Essential Video Analytics, Bosch Intelligent Video Analytics requires no additional investment or license fees from the customer.

Essential Video Analytics offers 15 different video analytics algorithms that can be used for advanced intrusion detection and enforcing health and safety regulations. It also possesses business analytics capabilities, such as people counting and crowd density information for retail environments.

Intelligent Video Analytics is specifically designed for the most demanding environments. It has the added capacity to deliver the highest level of accuracy for mission critical applications such as perimeter protection for airports and critical infrastructures, ship tracking and traffic monitoring. Intelligent Video Analytics offers 17 different video analytics algorithms and can do everything that Essential Video Analytics does. What makes Intelligent Video Analytics stand out is its ability to differentiate between genuine security events and known false triggers such as challenging environments where snow, wind, rain, water reflections and distance could make images even more difficult to interpret. Thus minimizing costly false positives and enabling users to focus on what is relevant to them.

The Fourth Edition of IFSEC Southeast Asia 2016 Ends with Huge Success
Playing a Vital Role in Region’s Security, Fire and Safety Industry

Last September witnessed the staging of the fourth edition of IFSEC Southeast Asia which took place at the Kuala Lumpur Convention Centre from 7-9 September 2016. The exhibition, with participation by more than 350 companies is the leading security, fire and safety event for the whole region. 6127 attendees from 47 countries recorded on the show floor, making it the best place for the industry professionals to converge under one roof.

The show was officiated by Y.B Masir Kujat, Deputy Minister of Ministry of Home Affairs, alongside YDH SAC Dato’ Nadzri Bin Zainal Abidin, Deputy Director of Narcotics Criminal Investigation Division, Royal Malaysia Police, President of the Asian Professional Security Association (Malaysia Chapter), Y.Bhg Dato’ Sri Mustapa Bin Haji Ali, CyberSecurity Malaysia Chairman, Y.Bhg General Tan Sri Dato’ Seri Mohd Azumi Bin Mohamed, United Business Media (M) Sdn Bhd, Chairman, Y.Bhg Tan Sri Dato’ Dr Ahmad Mustaffa Babjee, and graced by the presence of many other ministry officials, policing bodies and delegates.

Amongst the 47 countries, IFSEC Southeast Asia 2016 recorded an increase of visitors coming from Singapore, China, Taiwan, Korea and Indonesia. Visitors from IT, system integrators, manufacturers, construction/ developer and system installers is the main category of industry who visited the show. Visitor’s job description registered witnessed an increase in corporate senior management, marketing/ sales, safety/ fire management and technical/ engi-
neering management.

The staging of IFSEC Southeast Asia 2016 was solely to provide the industry professionals and buyers with the latest technology and connecting the buying chain. In the survey done after the show, most visitors chose IFSEC Southeast Asia as the best time to sourcing new products, meeting existing suppliers/buyers, gathering market information, establish new distribution channels/agenda.

Besides the exhibition area, IFSEC Southeast Asia has taken the initiative by partnering with a few organisation to organise seminars and training. For the first time, International Workplace (IW) a globally recognised learning and development provider organised a free two-day seminar comprising six topics, highlighting on occupational safety and health issues including ‘Transitioning to ISO 45001: the new International Standard for Occupational Safety and Health’ amongst many others. Besides that, Korea’s Ministry of Interior, through its agency National Computing and Information Service, had organised a seminar on Korea’s cybersecurity strategy, ‘Public-Private Collaboration in Response to Cyber-attacks.’ The collaboration with CyberSecurity Malaysia had witnessed the first ever one-day training concurrent with IFSEC Southeast Asia 2016. The training themed was ‘Cyber Security Risk Management for C-Suite,’ attracting CIOs from corporates to participate in the training. Industry players and trade buyers had a chance to listen to Jim Dearing, a market analyst in IHS Markit on the Market Overview of Security and the Smart Home in Asia. The annual IFSEC Technology Showcase took place with 12 topics delivered by leading technology providers in the industry, giving detail insight on their latest products and technical knowledge for the dealers, distributors, installers, system integrators and others.

The next edition of IFSEC Southeast Asia which will take place at Kuala Lumpur Convention Centre from 6-8 September 2017.

For more info:
E-mail Syamsul.razak@ubm.com

Although Central Monitoring Stations (CMS) for alarms have existed in Malaysia for quite some time, the percentage of users subscribing to this type of service is low as many still prefer to self-monitor. The majority of alarm systems installations are still making use of the telephone line with tone or pre-recorded voice reporting to report alarm events to the user. Several limitations exist with this method as telephone calls are made to one user at a time and the alert is missed if the user is not available when the alarm panel makes the call. By leveraging cellular data connectivity, the PROTEGUS platform provides an improved solution for a smart way to self-monitor your alarm system.

Using the PROTEGUS platform allows you to seamlessly connect your

Think Smart, Think Protegus
Now Every Alarm System Can Be Smart
smartphone to your home security system, even when you are on the go! When there are events that needs your attention, you are quickly notified via push-notification with the necessary details so that further action can be taken immediately. Since the system runs on data connectivity, there are no costly call or SMS charges. It is also possible to remotely control your alarm system from your smartphone or web-browser from wherever you are.

TRIKDIS Universal Alarm Communicator has the ability to integrate and connect with any existing alarm panel in the market and report to PROTEGUS App. Upgrading with TRIKDIS communicators is quick and easy. The system works even faster for Paradox, DSC and Caddx panels as it connects directly to the alarm panel’s data port in order to receive event signals. Due to its simple integration, the PROTEGUS platform opens up the market opportunity by offering a solution for new installations as well as a system upgrade for those who already have an alarm system.

**PROTEGUS App provides the following features:**
- Mobile app & web self-service.
- Push notification of all events.
- Able to arm/ disarm your system from your mobile.
- Check current alarm status.
- Hassle-free & secure data connection.

Recently, Global Top Technologies (M) Sdn Bhd (GTC) launched a new surveillance system at Matrade’s Malaysia Export Exhibition Centre (MEEC), marking a strategic partnership between the CCTV supplier with MEEC, where the centre will be equipped with GTC’s locally developed surveillance system.

At the press conference, MATRADE’s Chief Executive Officer, Dato’ Dzulkifli Mahmud and GTC’s founder T.T. Teoh urged for more local business communities to utilize as much as possible the convenience provided by MEEC in accessing global markets and promoting their products and services.

Malaysia Export Exhibition Centre (MEEC) is a trade centre, exhibition hall, and convention centre in the city of Kuala Lumpur. With a permanent display centre of 4,500 sq. meters, its mission is to promote Malaysian exports and enable more local companies to carve new frontiers in global markets, as well as to showcase various Malaysian products and services.

As the MEEC houses thousands of product showcases, a security solution by a trusted and effective surveillance system was of upmost importance. GTC was the chosen partner to provide the perfect surveillance solution to safeguard trade visitors and properties within the MEEC trade centre.

In order to ensure the best surveillance solutions, GTC-152HD dome cameras were installed at prime locations such as the walkways and along the exhibition hall. GTC-152HD dome
cameras are built with intelligent IR performance, enhanced with digital WDR technology to provide quality visibility under high contrast environments. Combined with 3D noise reduction, it is able to capture clear, focused and sharp images. In addition, to ensure the quality of the captured footages, the GTC-6008N Full HD NVR was used as the recorder so the cameras could function at their optimum level.

During the press conference, the Founder and Group Managing Director of GTC, Mr. T.T. Teoh was invited to share his experience where GTC had successfully extended its businesses into multiple foreign markets such as Australia, Brazil, China, Chile, Egypt, India, Indonesia, Italy, Middle East, Singapore, Sri Lanka, Thailand and Vietnam. Not to mention, GTC was recently chosen as one of the 19 recipients of the ASEAN Business Awards Malaysia (ABAM).
estemed speakers – Mr. Christopher Ankersen from the United Nations Department of Safety and Security, Irina Koulatchenko from Interpol’s General Secretariat and more.

Security award nominations

Also, the IACSP ASEAN Security Symposium & Awards brought four nominations from deserving security agencies in ASEAN countries such as Malaysia, Cambodia, Myanmar, Vietnam and Laos. This event paid tribute and presented special awards in honor of Superintendent Ibrahim Lebar of the Royal Malaysian Police and Private Ahmad Hurairah Bin Ismail of the Malaysian Army, who sacrificed their lives for Malaysia during the Sabah insurgency of the terrorist attacks in 2013.

Bosch Security Systems Malaysia Unveils Two New HD Video Surveillance Cameras

Bosch Security Systems Malaysia recently unveiled two new high-definition (HD) video surveillance cameras, the DINION IP starlight 7000 HD and the MIC IP starlight 7000 HD.

With the safety and security of employees and protection of assets being the top priority of most businesses these days, Bosch’s new HD video surveillance cameras are tailored to help increase the effectiveness of surveillance where the footage captured is clear, sharp and targeted, even where poor lighting is the principle challenge.

The new DINION IP Starlight 7000 HD for low-light performance

Using the latest sensors technology, lenses and processing circuitry, Bosch’s new DINION IP starlight 7000 HD camera is suitable for low-light performance. It produces clear, full-colour images 24 hours and seven days a week, even at night or under low-light conditions. It has a robust built-in mission critical video analytics that helps to focus on relevant situations and sends an alert when needed, or automatically tracks objects of interest. IVA also adds sense and structure to video data by adding metadata. This allows the quick retrieval of the relevant images from hours of stored video.

The other key features and functions of the DINION IP Starlight 7000 HD camera include optimal speed whereby its images-per-second mode captures images in fast action scenarios in casinos, airports and banks. The camera uses intelligent Dynamic Noise Reduction (iDNR) that...
actively analyzes the contents of a scene and reduces noise artifacts accordingly, resulting in reduction of bandwidth and storage requirements. In addition, its intelligent tracking can be used to autonomously detect and track moving objects. Users can also click on the object of interest and it will track accordingly. User can also define Regions of Interest (ROI) and select specific areas of the parent image using a remote electronic pan, tilt and zoom (E-PTZ).

Using Bosch’s domain expertise in material engineering, mechanical design, intelligent imaging and video streaming, its new MIC IP starlight 7000 HD camera boasts an advanced pan, tilt and zoom (PTZ) platform. Its ruggedized design is built to operate in any outdoor surveillance applications beyond the mechanical capabilities of normal PTZ systems such as monitoring traffic under bridges, tunnels and at the side of highways as well as perimeter protection and general city surveillance.

The MIC IP starlight 7000 HD camera includes high-performance imaging platforms that is able to deliver 1080p 25/30 HD resolution in environments with extreme ambient lights. It also comes with a 30x optical zoom lens (12x digital zoom) and flexible mounting options (upright, inverted, or canted). For operation in very dark conditions, its automatic control of shutter speeds increases sensitivity by more than 50 times. Furthermore, the System Integration function allows it to conform to the Open Network Video Interface Forum (ONVIF) specification which guarantees interoperability between network video products regardless of manufacturer.

Bosch Security Systems’ content-based imaging and intelligent video analytics technologies

“On the whole, our new HD cameras have three common, highly sought-after key features: produces clear HD images in fine details and colour, even in low light; the ability to capture fast-moving objects in high-resolution; and currently, intelligent video analytics,” said Janesta Woon, General Manager, Bosch Security Systems, Malaysia.

According to Janesta, “Both cameras are equipped with the latest technology in intelligent imaging and video streaming. With the Content-Based Imaging Technology (CBIT), the HD modules deliver high-resolution images even under challenging light conditions at very low bit rates. This technology is also used to identify areas for enhanced processing, where the camera examines the scene using its Intelligent Video Analytics (IVA) feature and provides feedback to re-tune the image processing. On the other hand, its Intelligent Auto Exposure technology allows users to view moving objects in bright and dark areas of a scene.”

“At Bosch, we are focused on innovating security where users need it the most, which we call ‘Intelligence at the Edge.’ In this day and age, video analysis is necessary to support physical, human surveillance to minimize possible human error. Cameras with the IVA technology help to identify security breaches and alert the security operators at any moment they are needed. This way, nothing serious goes unnoticed,” she concluded.

Bosch Security Systems key products for public address, conference and sound systems

Other products highlighted at the media briefing included PA VIRO, a unique, high-quality public address and voice evacuation system that delivers professional quality sound, thanks to its premium 24-bit digital processor, superior digital-to-analog converters, and outstanding Signal-to-Noise Ratio (SNR). Bosch also highlighted the DICENTIS Wireless Conference System that uses state-of-the-art technologies, standard Wi-Fi and smart wireless management to ensure interference-free wireless conferencing. Designed to be the most flexible discussion system available, it enables quick and easy set-up and breakdown of small meetings and larger conferences.

Also featured were the Electro-Voice EKX Series Portable Loudspeakers, the newest member of the Electro-Voice portable loudspeaker family, and combines legendary EV sound quality and reliability with the latest technology – all in a compact package suitable for a wide range of sound reinforcement scenarios, including musicians, DJs and live/ club/ installed sound applications. Additionally, the event also featured the Electro-Voice ETX powered loudspeakers that are built upon the industry-leading innovation and 85-year heritage of Electro-Voice audio engineering to offer the most advanced professional portable powered loudspeakers available today.

For more info: www.asia.boschsecurity.com
Achieving high performance images at night is one of the greatest pri-
orities of any video surveillance system. Under the cover of darkness there is a
greater risk of crime, but it is also the most difficult condition for cameras to
operate. This is where lighting becomes essential.

Of course, surveillance technology is evolving. Cameras are becoming
smarter and more efficient than ever, and lighting needs to adapt to support the
latest camera trends. The latest trends in higher megapixel, 4k+, multi-sensor and
lowlight cameras, along with a greater adaption of video analytics, are funda-
mentally changing the way we illuminate night time scenes.

Broadly speaking, the latest advances in camera technology can be grouped
into three main demands on LED lighting – to produce the best surveillance
images and system performance at night. These are:
- More powerful illumination.
- Intelligent networked illumination.
- Reduced cost of illumination.

This paper will explore the reasons for these 3 trends in LED lighting, and
an emerging 4th trend – improved data for specifiers.

1: More powerful illumination
High MP and 4k+ cameras

Over the last few years we’ve seen a steady rise in users demanding
more detail from their surveillance images at night. High megapixel and multi-
sensor cameras are being used to provide evidential detail, not just an overview of
a scene. This represents a big leap forward in image quality for the security
industry.

But more pixels require more light. High megapixel and 4k cameras need
professional lighting to enable the higher resolutions that they are capable
of – especially at night. Without dedicated lighting their performance will
degrade back to noisy, lower resolution images. We can see this in the smart
phone industry. The latest generation of smart phones, from the iPhone 7 to the
Samsung Galaxy S7, settle on a camera sweet spot of around 12MP. Of particular
interest is the Samsung Galaxy S6, which boasted 16MP. But the newer S7
model reduced that to 12MP to promote improved low light performance. So al-
ways remember, all things being equal, the higher the resolution the more light
is needed.

One of the most powerful features of high MP cameras is their ability to digi-
tally zoom into an image to extract more detail from a scene. But when you zoom,
both the high quality pixels and noise in the image are magnified. High MP and
4k+ cameras demand more powerful il-
lumination both to improve their overall performance, and to empower digital zoom at night.

To respond to the needs of high megapixel cameras, modern illuminators will have to guarantee higher levels of light on scene. Raytec measure the light output of all of our LED illuminators to calculate maximum distances based on exact light levels on scene – a standard practice followed by most reputable manufacturers. Every Raytec illuminator adheres to the ‘POWERS standard’ and delivers a minimum lighting power of 0.35μW/m² (Infra-Red) and 3 lux (White-Light) at its maximum quoted distance; high illumination levels to service high performance cameras. Illuminating any scene to this level will allow the camera to capture highly detailed images and achieve subject identification by empowering digital zoom.

**Multi-sensor cameras and large area surveillance**

The increased use of multi-sensor cameras also creates a demand for more powerful illumination. With multi-sensor cameras, huge areas can be monitored by stitching together multiple images, so that the end user can deploy fewer cameras to save on installation costs. A multi-sensor MP camera can cover the whole scene effectively and its digital zoom enables investigation of areas of interest.

The challenge from a lighting perspective is that huge areas need to be illuminated from a single location – close to the camera. When you are replacing multiple cameras with 1 camera and 1 camera location, then multiple illuminators also need to be replaced by 1 illuminator – not only to cover the whole scene but also to make good financial sense!

So in this instance, the lighting needs to be both powerful and span an incredibly wide area, covering the entire width and depth of the scene. But crucially, it needs to deliver a consistently high level of light throughout the whole area, so that the images are of the best quality wherever they are captured in the scene – near or far. The solution is high power 180° lighting designed to cover the entire camera view. As an example, the latest Raytec

Panoramic Ultra products illuminate up to 150m at an angle of 180° from a single illuminator so that multi-sensor cameras never miss an event at night.

The best solutions should use a highly elliptical beam which shapes the light to match the needs of the camera system. At Raytec we typically recommend a 180° horizontal x 10° vertical beam for wide angle applications to make sure the full scene is illuminated to its maximum distance without wasting any light – either into the sky as light spill, or onto the foreground as overexposure.

**2: Intelligent networked illumination**

**IP lighting for intelligent systems**

Many of today’s latest camera trends are IP based. IP video surveillance systems allow end-users to monitor their site and respond dynamically to any event, at any time. When designing lighting for intelligent IP systems, it is important that your lighting provides this same level of control and interactivity.

The latest developments in network illuminators, such as Raytec’s VARIO2 IP PoE series, offer the most flexible solutions for high performance night time surveillance. Network illuminators can be operated a) Manually, through a user friendly GUI that allows operators to respond to real time events and adjust lighting levels to fine-tune image quality, or b) Automatically, responding to alarms or triggers from other devices on the network. Illuminator scan also be controlled individually, or a group of illuminators can be controlled together to improve operational efficiency on site.

Today, the latest IP lighting for video surveillance can be fully integrated into an IP security system and communicate directly with VMS, BMS, IP cameras or other devices on the network. IP lighting can both trigger, and be triggered by any device on the network. IP lighting allows illumination to become smarter and more dynamic than ever before. It can deliver an intelligent, situation dependent response to achieve the highest levels of safety and security at all times.

For example, there is now no need to setup an illuminator to cover 1-100m as best it can. Both Infra-Red and White-Light systems can be set to automatically tailor and deliver exactly the right amount of light for the distance at which
an event occurs, to get the absolute best images at night.

Additionally, the photocell on an IP illuminator, upon detecting darkness, can be used to trigger a camera, or a series of cameras to change into black and white mode – automating and synchronising the whole security system.

IP lighting can also be programmed to act on alarm. For example, if an intrusion is detected at a perimeter fence line, visible White-Light LEDs along that perimeter can be turned on to aid visual inspection, whilst also acting as a highly visual deterrent to any intruders.

The possibilities are endless, limited only by your imagination. But always remember, a smart system should only use the right amount of light when it is needed to save running costs.

3: Reduced cost of illumination

Low light – not no-light

There is little doubt that cameras are getting better in low light conditions. All of the major camera manufacturers now have low-light models that are highly sensitive to light. These cameras are designed to maximise any available light on scene to produce images at night. But remember, these are low light cameras, not no-light cameras. All cameras need light to see, whether that’s in the security industry, photographic industry, televisual industry or integrated into your smart phone. Good lighting and a noise free image will also lower your bandwidth and storage, whilst maintaining a higher frame rate for accurate real time video.

Whilst all cameras need good lighting to see at night, the big advantage of low-light cameras is that they produce great results with significantly less light. This means, that when you use a professional low-light camera you can use a smaller LED illuminator to deliver the same distances that you would achieve with a more basic camera and a larger illuminator. Effectively, using a low-light camera lets you reduce the cost of your supplementary lighting.

What you should never do is use a low-light camera without any professional surveillance lighting. Why pay extra for a high performance camera and then limit its performance by not providing illumination for it? Even the best cameras will still produce noisy images in darkness that will seriously impact the performance of video analytics and create false alarms. No light = no video analytics.

Raytec continually test our lighting with a wide range of world leading cameras. When we carefully align the latest high power LED lighting with a high performance low light camera, the results are outstanding. Our recommendation to get the best pictures and performance at night would always be to choose a high performance camera and support it with a small amount of professional LED lighting.
More light for your money!

Over time technology improves, and the cost of that technology comes down. We can certainly see this with surveillance cameras where there has been some price erosion. This means that lighting manufacturers must also respond with lower cost solutions. If the cost of a video surveillance camera falls, then it follows that the price of lighting must also fall to support that camera.

LED lighting is a global growth technology attracting lots of investment. Consequently, the performance of LEDs is constantly improving and developing. Modern illuminators that are purpose designed for video surveillance and use the latest optics and LEDs, can deliver over 200% more lighting power than illuminators that are only 3-4 years old.

As an example, Raytec’s latest range of VARIO 2 illuminators utilises PLATINUM Elite SMT LED technology to deliver up to 236% more power than its predecessor VARIO.

Modern illuminators deliver more light output for your money, or ‘more metres of illumination per $.’ This often means that you can utilise a smaller illuminator than was previously possible, making your installation more cost effective.

Essentially, the security industry as we know it, has long been absent of any accepted surveillance lighting standards; each manufacturer has always established their own performance criteria. After helping our customers face this challenge for the last 25 years, Raytec have tackled this head on by publishing the industry’s first lighting for surveillance standard – ‘POWERS.’ POWERS is an open standard available for all manufacturers to adopt.

As part of the POWERS standard, Raytec provide standardised and scientifically tested lighting data to support our performance claims – especially distance. The POWERS standard defines the amount of light needed at the maximum quoted distance; 0.35μW/cm² for IR and 3 lux for white-light.

The POWERS data is designed to help all security professionals to more easily specify and reliably compare the performance of different illuminators. It also provides an understanding as to how a chosen lighting product will perform.

Based on decades of experience, POWERS data is available for all of Raytec’s VARIO2 illuminators. It allows security professionals to specify with confidence, and provides reliable and consistent information on which to base their choices.

We love to talk lighting

Raytec are proud to lead lighting education in the security industry. You can learn all there is to know about lighting by exploring our dedicated Industry Knowledge hub on our website. You can also take advantage of our free lighting design service, which provides a real life insight into how your installation will perform.
Applying mathematics

The fire industry calling is a noble one – it uses scientific principles to enable its very existence. The fire industry, however, calculates fire engineering designs based on formulas that its technicians have no way of understanding or verifying are accurate. The industry needs a Resident Mathematician to ensure that the formulas they use are correct. Fire engineers do not always understand the physical properties of the clean agents they use. Some do not wholly appreciate the impact of temperature on the state of an agent or its pressures. Novec™ 1230 for instance is an organic compound which deteriorates quickly to a point of non-effectiveness if poorly handled and stored. These problems and many more can be solved in the fire industry by the application of fundamental scientific and engineering principles, but they can only be proved by the application of the mathematics of them. Coltraco are at the vanguard of this in the fire industry.

Clean agents

Clean agents are pressurised liquefied gases or non-liquefied gases that are pressurised on actuation. CO₂ is permanently under 720 psi or 49 bar of pressure i.e., nearly 50 times atmospheric pressure (by comparison a cup of water at sea level exists at 1 bar or 14.5 psi). Its state changes under increased temperatures to one that is neither a liquid nor a gas. Gases under pressure are often effectively considered by the industry as single and passive cylinder columns of solid material from the perspective of their monitoring following installation. Whereas being under pressure and constantly changing under temperature they should be considered as active and dynamic systems requiring constant monitoring. These are not passive systems and therefore, they are dynamic ones, and all dynamic systems under pressure need constant monitoring. Coltraco aims to be the lead technical authority in the monitoring of liquefied and non-liquefied clean agents during the life of the gaseous extinguishing system once it has been installed and commissioned.

We achieve this

Weachieve this by our ability to establish the liquid contents of liquefied clean agents – through UL-approved Portalevel™ MAX and the constant monitoring system, Permalevel™ Multiplex. Once we do this we can establish their weight and mass – through Portasteele™ Calculator (the world’s first product capable of this). If we can monitor their pressure too then we can moni-
tor both the pressure of the gas above the liquefied agent such as in Novec™ 1230 and the pressure of non-liquefied gases such as Inergen or Nitrogen.

**Ultrasound**

Ultrasound is merely sound beyond our audible range. Dolphins and whales can communicate at sea over long ranges as sound travels more efficiently through liquids than air. We use this principle to identify that difference in a cylinder containing liquefied agent. Consider one’s ears as ‘the receiver’ and one’s mouth as the ‘transmitter.’ Sound will arrive at one’s ears at different times.

The reason though that we hear a unitary sound is that our brain processes it to one. This is what we do by processing the returning ultrasound. In the air bats navigate by airborne ultrasound. We can apply the same principle in room integrity. We are at the heart of the Royal Navy’s efforts to maintain watertight integrity by the use of it in their submarines and warships and are now in service with others like the Indian Navy and Indian Coast Guard using this Naval technology that we pioneered and developed and continue to refine today. We can do the same for room integrity monitoring in the fire industry.

**Constant monitoring of gaseous extinguishing systems**

A data centre is expensive to build and maintain. It generates significant heat. Every bank with a branch network has hundreds of them. The value of them are very high but the value of their inability to sustain business continuity is far higher than their physical assets. Almost incalculable. And yet insurers are asked to underwrite them and the fire industry to deliver their protection at the cheapest price. Who today in the security industry would consider installing an alarm system without monitoring its overall status, not only its actuation and integrating the whole of it to the building management system with central monitoring being an essential part of it? Who would build a ship or offshore platform and fit it with say power generating auxiliary machinery without installing emergency power systems or monitoring their condition states? These are basic engineering principles of building redundancy into ones systems and monitoring ones systems.

The fire industry though still approaches the installation of a dynamic and pressurised fixed gaseous extinguishing system as if it needs no integration into a BMS other than to alert as to its actuation. Nor does it think it needs constant monitoring lest it reveals the underlying engineering risk of them. Can this be because good engineering is left unrewarded in the fire industry? Or might it be that the fire industry is more concerned to negate customer awareness of its need lest it reveals that pressurised systems do discharge and leak? These are needless concerns. All good engineering demands the monitoring of dynamic structures and a highly pressurised cylinder is a dynamic structure. It is designed to protect a critical infrastructure or asset. Without con-

**Data Centres are protected by Clean Agent Systems not only for protection but also to ensure their vital business continuity**

**Portalevel™ MAX delivers the liquid level content readings & Portasteele™ Calculator converts these to ones of weight and mass**

**The Offshore Oil & Gas Sector concerns itself with Watertight Integrity and Fire Extinguishing Systems for obvious reasons …**
Rom integrity monitoring – There remains a wider problem too

This is essential under ISO 14520 where gaseous extinguishing systems have to be designed in relation to the discharging agent hold-time (if the room cannot hold the agent because of leaks the agent will disperse and not extinguish the fire) and discharging agent peak pressure (if the pressure is too high for partition walls or suspended ceilings they will be blown apart or damaged and possibly destroying the room integrity). At the design stage of a fire extinguishing system rooms are tested for room integrity by positively pressurising a room and detecting escaping pressure to verify that the room itself into which the gaseous extinguishant discharges on actuation can both hold the agent after its discharge and hold its pressure on actuation. The fire system is then installed and commissioned. But over the next 10 years no further tests are made on room integrity and the cylinders merely hydrostatically tested to ensure they can cope with their design pressure limits. How can one be sure therefore that on actuation the room will hold the discharged agent to extinguish the fire and its partitions and ceilings are capable of withstanding the pressure of the agent on discharge? A building is like a ship at sea. It turns and bends as any structure does. It ages and leak sites develop. Coltraco is generating capability that will allow for the constant monitoring of room integrity. We aim to be the lead technical authority in the constant monitoring of room integrity during the life of the gaseous extinguishing system once it is installed and commissioned.

Conclusion

The fire industry has access to customers who depend on it to deliver fire engineering to protect their risks. Insurance companies underwrite that risk. But the mathematics of its failure are high, whether in the application and understanding of the formulas they use to calculate design concentrations of gases or flow rates or in the deployment of fundamental engineering principles to protect dynamic pressurised systems and the structures they are working so hard to protect against the risk of fire.

Electricity Sub-Stations – there are over 4,000 of them in Malaysia …
experts, who represent various industry segments including advertising, automotive, connected networks, consumer devices, entertainment, displays, media, semiconductors, telecommunications and others. These analysts were asked to provide their informed predictions for the global technology market in the New Year.

The Top Seven Technology Trends for 2017, as identified in this IHS Markit report and listed in no particular order, are as follows:

**Trend #1 – Smart manufacturing accelerates with more real-world products**
- Companies use IoT to transform how products are made, how supply chains are managed and how customers can influence design.
- Example: look for automation/operator tech firms to release their own Platforms-as-a-Service (PaaS) offering in the cloud as they compete to offer and own IoT projects for the industrial market.

**Trend #2 – Artificial Intelligence (AI) gets serious**
- Already, personified AI assistants from a handful of companies (Amazon’s Alexa, Apple’s Siri) have access to billions of users via smartphones and other devices.
- However, even bigger, more profound changes are on their way as levels of human control are ceded directly to AI, such as in autonomous cars or robots.

**Trend #3 – The rise of virtual worlds**
- After several years of hype, the operative reality behind virtual, augmented and mixed digital worlds is set to manifest more fully in 2017. The technology for augmented reality (AR) and virtual reality (VR) will advance significantly as Facebook, Google and Microsoft consolidate their existing technologies into more exhaustive strategies.
- New versions of VR-capable game consoles featuring 4K video and high dynamic range (HDR) will also create the medium for high-quality VR content, even if availability will be limited for the next few years.

**Trend #4 – The ‘Meta Cloud’ era arrives**
- Communication service providers plan to deliver a new wave of innovation, allowing for a single connection to the enterprise and acting as a gateway to multiple cloud service providers. IHS Markit refers to this as the meta cloud.
- In 2017, new offerings will become available from traditional Software-as-a-Service (SaaS) vendors, coupled with expanded offers from the likes of IBM, Amazon and – most notably – Google via its Tensor chip. Watch for the development and deployment of more specialized silicon in the next two years.

**Trend #5 – A revolution in new device formats**
- The development of the consumer drone is the closest example of a product type evolved over the past few years that has quickly gone mass market. 3D printers and pens are heading the same way.
- The next set of new devices may well materialize at the boundary of cheap 3D printing and inexpensive smartphone components to create completely novel device types and uses.

**Trend #6 – Solar still the largest source of renewable new power**
- The next year, 2017, will see photovoltaic (PV) technology retaining – and confirming – its position as the planet’s largest source of new renewable power.
- More than a quarter of all PV capacity added worldwide in 2016 and 2017 will be in the form of solar panels. The growth of solar can be attributed to sharp drops in the cost of PV systems, combined with favorable country policies toward new renewable power.

**Trend #7 – Low-power technologies extend reach to inaccessible IoT devices**
- The first batch of low-power, wide-area networks (LPWAN) will go live around the world in 2017 as an alternative to short-range wireless standards such as Wi-Fi and Bluetooth. LPWAN technologies will connect hard-to-reach, IoT devices more efficiently and at a lower cost, dealing with challenges stemming from range limitation to poor signal strength. As a result, opportunities will open up for telecom providers to support low-bit-rate applications.
- In turn, the increased availability and low cost of LPWAN technologies will drive connectivity for smart metering, smart building and precision agriculture, among many other applications.
Dahua Technology has announced the integration of its IP cameras to Ivideon cloud service. The integration involves Lite series, ECO Savvy 2.0 series, and Wi-Fi series IP cameras, which offer 1.3 and 3 megapixels resolution.

Dahua Eco-Savvy 2.0 series is an excellent surveillance offering for high-resolution and clear video monitoring 24 hours a day, in all lighting conditions. It has energy-saving, 30x optical zoom, as well as smart features to make surveillance easier.

Dahua Wi-Fi series camera allows users to monitor home and acts as a deterrent to thefts and other crimes. Dahua home Wi-Fi series camera has up to 3-megapixel resolution. The footage can be saved locally. Users are able to interact with family, friends or staff remotely while chatting with them via the built-in bi-directional audio.

This integration allows effortless connection of any number of Dahua IP cameras regardless of their geographical locations to the Cloud which makes them accessible via any Internet-enabled device (PC, Mac, Linux, Web, iOS, Android) from a single account anywhere in the World. Dahua IP cameras can now be connected to the Cloud in a matter of minutes, without using NVRs, DVRs or servers. It combines a cost-effective and time-saving connectivity solution with the high quality Dahua cameras.

“At Ivideon we beat the myths that video surveillance is complicated and expensive. We make it easy and accessible by providing smart cloud-based video surveillance and remote control for business and home, no matter the size,” said Vic Saikowski, Ivideon’s Vice President for Business Development, “It’s a pleasure to be working with Dahua, a company who places so much emphasis on product innovation.”

About Ivideon

Ivideon is the world’s only cloud network video surveillance service with 15 data centres located around the world. With only 5 years in development, Ivideon has now got more than 1.8 million active users and more than 900 business partners. Ivideon’s Apps for iOS and Google Play have more than 1.5 million downloads with average rating 4.5/5. Ivideon allows managing access to securely stored SSL-encrypted videos by using flexible permission system. Active notification system for any suspicious event: from camera disconnection to detected motion and sound, together with open API and integration with IFTTT and POS systems enhance video surveillance functionality. Ivideon’s Partner Program is a successful recurring revenue model, creating a unique profit sharing opportunity for the distribution and installer partners.

Hikvision Achieves No.1 Ranking in the A&S Security 50

Underlining the company’s position as the world’s leading supplier in innovative video surveillance products and solutions, Hikvision has achieved Number 1 overall position, being placed at the top of the rankings in A&S magazine’s ‘Security 50’ 2016, with a 43.6% leap in revenues, following a rise to second place in 2015 from third place in 2014.

Ranking public-listed manufacturers by product sales revenue, gross profit, and profit margin, participants in the A&S Security 50 range from exclusive manufacturers to end-to-end solution providers, and provides the security industry with a ‘Who’s Who’ of the global security market’s most successful com-
companies.

Following Hikvision’s recent achievement of winning No.1 position in the Scene Classification category at the ImageNet Large Scale Visual Recognition Challenge 2016, this latest achievement illustrates how Hikvision’s strong and sustainable technology development is providing a solid platform for the company’s success. Via the sustained expansion of its global network, Hikvision is also placing the importance of localised support and service to its partners and users at the forefront of its operation.

“This outstanding A&S Security 50 achievement demonstrates Hikvision’s continuing dedication to its investment in innovation and excellence,” says Cynthia Ho, Vice President at Hikvision, “By responding rapidly to emerging market trends, Hikvision’s smooth transition from analog, to digital, IP and HD, and onward to advanced video intelligence, has provided the catalyst for another year of massive growth for Hikvision.

“The company seizes every opportunity and trend in the security industry to develop dynamic and innovative products that meet the ever changing needs of market demands. Beyond video surveillance, we see Artificial Intelligence and big data as the inevitable trends of the future, where the technology could help greatly improve operational efficiency for commercial businesses, transportation and many more sectors.”

WeiQi Wu, VP at Hikvision in charge of R&D said, “Since it’s very beginning, Hikvision has invested heavily in building a first class R&D capability, which has laid a solid foundation for the company’s success. Also, our strong R&D management system ensures the highly efficient operation of our R&D team. Over the past decade, Hikvision has embraced world-leading management practices and tools, such as IPD, CMMI and PDM, to continuously optimize the company’s product development process. Applying this methodology has led to the development of ‘best-in-class’ products and services that not only meet the needs of the industry, but are also quickly accepted by the market. Underlining Hikvision’s industry-leading R&D capability, this year, the company has achieved CMMI Maturity Level 5 certification. Looking to the future, Hikvision will continue to push the boundary of security technology and develop even more high-quality products for our customers worldwide.”

Suprema, Inc., a leading global provider of biometrics and ID solutions has been recognized as one of the top 50 largest security company in A&S’s 2016 Security 50 rankings. In just one year, Suprema moved up in its ranking from 34th to 31st with its 2015 annual revenue of US$52.1 million. Since 2011, Suprema has been ranked in Security 50 for 6 consecutive years.

The Security 50 from A&S Magazine is an annual rankings of public-listed physical security manufacturers around the globe solely based on their financial performance (sales revenue).

In 2016 Security 50 rankings, Suprema is the only dedicated biometrics company among the ‘Access Control Product Group’ and ranked 6th in Access Control rankings after multi-nationals including AssaAbloy, Allegion and Nedap.

“We are thrilled to be recognized as one of the key players in the security industry by listing our name on 2016 Security 50 rankings. This is an incredible reflection of overarching vision and innovations of our technology, products and solutions. When it comes to biometrics, the market focus is shifting from technological advances to user convenience. As credential management and interoperability become more important, we will put more effort on better delivering identity management solutions while maintaining best-available biometric technologies over the competition,” said James Lee, President at Suprema.

During 2010-2015 period, Suprema has recorded phenomenal growth at CAGR of 12% and the company has also achieved consistent double digit growth throughout the past decade.
Bravo Expands Strategic Partnership with Motorola Solutions to Unify Communications and Enhance Public Safety in Saudi Arabia

Bravo, the critical communications arm of Saudi Telecom Company, has selected Motorola Solutions as one of its partners to build a nationwide public safety network based on TETRA (Terrestrial Trunked Radio) across the Kingdom.

- **DIMETRA TETRA-based digital radio solution to ease network demand and enable different agencies to communicate in a unified manner.**

- **Services to benefit and enhance public safety for government, law enforcement, border control, immigration, military and defence and other enterprise sectors such as oil and gas and transportation.**

- **WAVE 7000 high-performance broadband push-to-talk to extend critical communications to broadband devices.**

Motorola Solutions will be working with Bravo to provide critical unified communications between the different public safety and government agencies. The enhanced network is designed to address the ever-increasing demand from end users across the Kingdom for reliable, critical communications, extending the current communications infrastructure with the latest DIMETRA TETRA based digital radio solutions.

Mission-critical communications are essential for public safety agencies, especially at times of high network traffic. Even in situations like natural disasters or major emergencies, Motorola Solutions’ public safety solutions are designed to provide seamless and secure communications not available on commercial networks. As a leader in mission-critical solutions, Motorola Solutions has been part of the development of the TETRA Standard. This commitment continues with new products and initiatives designed to meet the ever changing needs of customers around the world.

The nationwide DIMETRA TETRA network will allow unified communications amongst the Kingdom’s numerous government and public safety agencies – many of which operate on individual networks – as well as offering enhanced services for the oil and gas industries.

“Our vision is to create one nationwide network, and this is a major step toward that. Bravo has an excellent, decade-long partnership with Motorola Solutions, the network provider and integrator of our iDEN network. We look forward to continuing this strategic relationship,” said Dr Fahad Bin Hussain Bin Mushayt, Bravo CEO.

Motorola Solutions will also provide Bravo with WAVE 7000, the public safety-grade broadband push-to-talk (PTT) offering, used for projects that require highly critical communications such as the UK Home Office’s new Emergency Services Network (ESN). WAVE 7000 allows for PTT communications across broadband and land mobile radio networks, which allows teams to keep connected.

In addition to push-to-talk, WAVE 7000 can offer a rich broadband experience when integrated with Motorola’s Public Safety Experience (PSX). The integrated messaging client allows users to share images, video, voice clips and location. PSX also includes integrated mapping that shows where talk group members are located and offers immediate ways to communicate with them.

“In times of emergency, all emergency services must work together to protect and serve the public. In these situations time can mean lives, so clear and reliable communications is critical. This system, used by emergency services around the world, will allow us to unite public safety agencies and provide clear and reliable coverage across the Kingdom of Saudi Arabia,” said Mark Schmidl, Corporate Vice President and General Manager for Motorola Solutions in EMEA.

Bravo currently supplies critical communications to more than 180,000 users, including Push-to-Talk with iDEN (Integrated Digital Enhanced Network). Motorola Solutions has had a long-term partnership with Bravo as the network provider and integrator of the iDEN system back in 2005. The new TETRA project is an extension of this strong relationship, continuing to provide Bravo’s customers with best-in-class critical communications solutions.
Honeywell Building Solutions has integrated HID technology into its new Honeywell Vector Occupant App to transform the work environment, giving building occupants convenient, connected experiences in facilities. With mobile access as one of its key features, the new Honeywell Vector Occupant App makes it possible for building occupants to use their mobile devices for card-free secure access to a single area of a building, an entire facility or multiple locations around the globe.

“HID Global shares a commitment with Honeywell to deliver a more satisfying, mobile-centric experience in smart buildings,” said Harm Radstaak, Vice President and Managing Director of the Physical Access Control Solutions business with HID Global, “We look forward to exploring opportunities with Honeywell to extend the benefits of using trusted identities on mobile devices for a variety of building services and applications.”

Honeywell utilized tailored integration workshops and testing offered through HID Professional Services™, along with the HID Seos® credential technology and app SDKs, to create the customized mobile access solution for its occupant app. The solution features HID Global’s patented ‘Twist and Go’ gesture technology to open doors from a distance using a smartphone.

Working independently of underlying building systems, the app also includes HID Global’s mobile access system to streamline the management of trusted IDs for building administrators. The technology in the app supports mobile credentials, providing building managers more control over credential transactions.

The Honeywell Vector Occupant App demonstrates the value of HID Global solutions that are part of the company’s mobility initiative, which enables users to confidently use more applications, on the go, with a trusted ID that can be carried on smart devices.

Pelco by Schneider Electric’s Optera™ Cameras Fully Integrated with OnSSI’s Ocularis VMS

Ocularis 5, the latest VMS solution from OnSSI is now compatible with Pelco’s Optera Multi Sensor panoramic cameras. Optera cameras include 180˚, 270˚, and 360˚ versions, all of which offer a blended and seamless panoramic viewing experience without disruption or distraction.

“The integration of Pelco’s Optera camera line and OnSSI’s Ocularis 5 VMS provides a powerful, highly efficient system solution for numerous surveillance applications,” said Mulli Diamant, VP of International Business Development, OnSSI, “Both end users and integrators alike will benefit from this integration by increasing situational awareness and improving overall ROI.”

Optera Multi Sensor cameras feature 12MPx resolution with electronic PTZ across the entire panoramic field of view to provide highest-quality, uniform image detail. The technology elevates both live and forensic scene analysis to a
Internationals Updates

completely new level for today’s security professionals. The cameras additionally feature Pelco’s SureVision 2.0 technology to overcome glare, along with WDR and low light performance to deliver the best panoramic images available in varying conditions.

“OnSSI is a leading provider of high performance VMS solutions and we are pleased to expand our existing technology partnership to provide our mutual customers with the new features and benefits available in our joint solution,” said Jonathan Lewit, Director of Technology Leadership, Pelco by Schneider Electric, “The broader capabilities provided by the integration of Pelco’s Optrera camera line and OnSSI’s Ocularis VMS presents new opportunities for all involved.”

Ocularis 5 provides more robust network and video security with features including end-to-end encryption for the VMS, a scrambled recorded video database to protect the integrity of recorded video, and the ability to record directly to a NAS anywhere on the network.

Ocularis 5 is an intelligent, cost-effective VMS platform that simplifies workloads and management. There is no need to register camera licenses and MAC addresses. It features automatic load balancing for managing recordings across system servers. Unique to Ocularis, Critical Camera Failover ensures continuous surveillance by switching to a failover camera in as little as two seconds. Ocularis 5 also allows for multiple different recorders to be combined under the same Base (including legacy Ocularis 4.X recorders) with centralized user and event management.

Milipol Asia-Pacific 2017

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 throughout the region will again be represented at Milipol Asia-Pacific 2017. An estimated 150 VIP delegates, comprising 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.
Infinova Introduces its Latest Technology Offerings at Intersec 2017

At Intersec 2017, Infinova will be demonstrating their latest technology offerings which include 4K camera, H.265, Panoramic, Starlight Series, Thermal, Explosion Proof, Edge-Analytics Enabled Cameras, Face Recognition, ANPR solutions, ONTS, NVR and much more.

8MP 180°HD panoramic dome camera: VP120-A605 series camera is suitable for highways, roads, public security, airports, railways, ports, oil fields, parking lots, stadiums, entertainment centers, subways, large department stores, star hotels, prisons, conference halls, exhibition centers and other high-resolution surveillance applications.

H.265 HD megapixel Smart Starlight WDR IP box camera (SECONA award winning camera): VT210-A2-A0 series camera is designed for safe city, rail transit and municipal construction. Particularly, it is widely used in city public security, highway, metro, station, exhibition hall, etc.

HD 2 megapixel Starlight intelligent IP PTZ dome camera: They can be applied to the explosion environment (excluding mines) caused by the mixture of combustible gases and air.

H.265 HD 2 megapixel Starlight Intelligent IR network PTZ dome camera

Network video recorder – V3072-32KE: This embedded HD network video recorder is an HD surveillance and storage device that integrates HD image decoding technology, network technology and storage technology, supporting mainstream brand network cameras access.

“"This is the Fourth Year in a row that Infinova is being associated with Intersec as a Gold Sponsor of the show. It’s been more than 12 years that Infinova has been a part of this show and this has been a great platform for us to enhance our brand awareness and strengthen relationship with our partners. We shall be showcasing our latest offerings and our successful deployments, particularly in City Surveillance, Airport and Industrial projects. We shall also be demonstrating Swann - #1 player in the DIY markets, acquired by Infinova last year.”

– Milind Borkar
Vice President of Sales, Infinova, March Networks and Swann, Middle East, Africa and SAARC
The video software market is expected to exceed $9 billion in revenue by 2021, according to new insights released by IHS Markit.

The atomization of media distribution and the switch from hardware-based technology solutions to cloud implementations are key drivers for the $3 billion in revenue growth over the next five years, according to the new Video Software, Security, and Analytics Intelligence Service from IHS Technology.

“Taken together, these two forces have created a market where value is shifting towards the frontend,” said Cecilia Zhu, analyst at IHS Technology, “A superior user-experience has become fundamental to securing increased consumer spend.”

Content security represents the largest opportunity in 2015

Globally, content security accounts for 32 percent of the digital video software market. “While demand for robust security solutions is unlikely to deteriorate, particularly in the presence of high-value UHD and HDR content, the segment is effectively saturated,” Zhu said.

By contrast, Online Video Platform solutions will continue to generate large, year-on-year returns through 2021. “The necessity of online distribution backed by a platform pre-integrated across a rich ecosystem of partners, means demand for OVP solutions will rise over the next five years,” Zhu said.

North America secures the leading position

North America is the key region for the video software market, and generates roughly $2.9 billion. The region’s value relates primarily to confluence of three factors: the presence of large media companies, their outright scale, and their sheer number. “The region’s economic dominance should not, however, overshadow the existence of cutting-edge video services in Europe, Asia, and the Middle East, and the technology demand that these services generate,” Zhu said.

Cisco takes the top spot

Cisco has a 15 percent share of the video software segment, the largest globally. As per Zhu, “The company has proven adept at transitioning into the video space, and at using its longstanding presence in core, metro, and access-network infrastructure to cross and upsell video-specific software.”

Video Software, Security, and Analytics Intelligence (VSSAI) allows vendors, media companies, institutional investors, and strategic investors to benchmark competitor activity, track the flow capital in the market, and understand where value-creation is taking place across frontend and UX-related technologies.
MOBOTIX Wins Two Awards At All-Over-IP

At this year’s All-Over-IP security trade fair, which was held in Moscow at the end of November, MOBOTIX celebrated two successes. They were the only manufacturer in the field of IP video security to win the ‘Best Product’ award, which went to their thermal radiometry camera models. These models can provide alerts for up to 20 different kinds of temperature events in a range from -40 to +550°C, which is decisive in detecting sources of fire and heat. MOBOTIX won another award in the ‘Next Big Thing’ category for their new plug-and-play solution, a preconfigured complete IP video system for the front door. “We have succeeded in bringing home awards from All-over-IP for the third time. I’m very proud of that,” said Mikhail Chichvarin, Business Development Manager Russia & CIS countries.

At the trade fair, MOBOTIX focused on presenting their innovative solutions for industrial applications and retail as well as the new plug-and-play models. The newly designed trade fair booth, which exclusively featured Russian text for the first time, was very popular with visitors. Partners, journalists and many new interested parties praised the booth’s open look and feel, and were thrilled by the MOBOTIX solutions on show. MOBOTIX topped off their appearance at the Moscow event with a specialist lecture by Project Manager Matteo Lugaresi entitled ‘Blending Technologies for a better living: CCTV as you’ve never seen it before.’

IP-Based Video Surveillance Zooms in on Middle East Retail Sector

Offering Bottom-Line Benefits Beyond Security

The rise of IoT (Internet of Things), and its convergence with video analytics is set to have a profound impact on the Middle East video surveillance industry, as the regional security sector’s traditional boundaries continue to blur.

Global security solutions providers at the upcoming Intersec 2017 trade show in Dubai said the retail sector is one of many industry verticals where video surveillance can offer bottom-line benefits far beyond loss prevention and control.

Swedish company Axis Communications is one of more than 1,200 exhibitors at Intersec, and will offer up a range of intelligent solutions based on IP (Internet Protocol) video analytics that have multiple applications across a range of sectors, including retail.

Johan Åkesson, Director of Business Development for Retail at Axis Communications, said retailers who think of video surveillance as a loss prevention tool are missing a huge opportunity to leverage some truly powerful in-store intelligence.

“With embedded analytics in network video cameras, retailers can not only observe customer behaviour in-
store, but garner real-time statistics to improve store layout, product and display placements, and even identify bottlenecks and dead areas on the shop floor,” said Johan.

Axis Communications will display its entire range of intelligent security solutions at Intersec 2017, which runs from 22-24 January at the Dubai International Convention and Exhibition Centre. It’s among the world’s top ten security solutions providers that will all be out in force at the world’s largest trade fair for security, safety, and fire protection.

The 19th edition of the three-day event arrives as the global appetite for video analytics is expected to grow annually by 20 per cent, from US$1.69 billion in 2016 to US$4.23 billion by 2021, according to news portal Security.World.

Dubai-based AgilityGrid is another Intersec 2017 exhibitor that will showcase its video surveillance hardware and software solutions, having already worked on a major project in a Qatar mall where it installed thousands of cameras and over 10 PB (petabyte) of storage.

Costa Boukouvalas, the CEO of Agility Grid, said there’s strong demand in the retail sector for large-scale surveillance solutions, with Big Data playing a key role. “The trend for Big Data analytics and understanding more about customers and people’s behaviour in general is going to increasingly be applied to Video Analytics – from use of facial recognition and biometric software to recognising VIP customers when they enter a retail outlet.”

“Our large-scale solutions have ranged up to 10PB, 3,000 cameras and over 100 recording servers. At Intersec, we’ll also be showcasing a new hardware line that better caters to customers who have medium-sized solution requirements with virtualisation.”

Elsewhere, Korean-based surveillance solutions provider IDIS will return to Intersec 2017, and is looking to emulate the successful partnership it established with Sedar – a home furnishing manufacturer and retailer – at one of the show’s previous editions.

Other leading Intersec exhibitors showcasing IP-based video surveillance solutions for retail and other enterprise sectors include Hikvision, Honeywell, Bosch Security Systems, Dahua, Tyco, Flir Systems, iOmniscient, NIT, Nedaa, March Networks, and LENSEC.

Ahmed Pauwels, CEO of Messe Frankfurt Middle East, the organiser of Intersec said, “IP-based surveillance systems have surpassed the boundary between passive monitoring of premises and establishments into interactive and interpretative systems that can analyse and provide real-time intelligence to remote control rooms for further action.

“Breakthrough technology and interactive systems will transform the way surveillance and monitoring is done across the world, and as the leading international security and safety trade platform, Intersec 2017 will be the launch venue of choice for the industry.”

Intersec 2017 will feature more than 1,200 exhibitors from 52 countries, while over 31,000 visitors from 128 countries are expected to attend as they seek the latest solutions across seven show sections of Commercial Security, Fire & Rescue, Safety & Health, Homeland Security & Policing, Perimeter & Physical Security, Information Security, and Smart Home & Building Automation.

A group of computer scientists at the National Institute of Standards and Technology (NIST) has been working for more than 15 years on an impossible task: to maintain an up-to-date archive of the world’s software. Because the amount of software in circulation keeps growing, they will never enjoy the satisfaction of completing their assignment. But they have succeeded in creating the largest publicly known collection of its kind in the world.

Called the National Software Reference Library (NSRL), the collection is about to get a whole lot larger. On De-

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**Database of Software ‘Fingerprints’ Expands to Include Mobile Apps**

*NIST’s National Software Reference Library, an essential tool for digital forensic investigators, is about to become a lot more powerful*

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**NIST**

National Institute of Standards and Technology
U.S. Department of Commerce
December 15, 2016, the NSRL will expand to include its first batch of 23,000 mobile apps for Android and iOS. Another 200,000 are expected to be added during the coming year.

The NSRL is a critical tool used in law enforcement and national security investigations. Every file in the NSRL is run through a computational procedure that generates a unique digital fingerprint for that file, expressed as a string of 40 letters and numbers. NIST publishes those fingerprints in a Reference Data Set (RDS) that is updated quarterly and freely available to the public.

Software applications often include hundreds or even thousands of files – think of all the graphics files and templates that are placed on your computer when you install a word processing application. The RDS contains fingerprints for all the files in the NSRL, more than 50 million so far.

The NSRL is jointly funded by NIST and the Department of Homeland Security Science and Technology Directorate’s Cyber Forensics Project, and the addition of mobile apps was done in collaboration with their Mobile App Security R&D project.

An essential tool for forensic investigators

“When we seize a computer or hard drive as part of an investigation, we need to eliminate files that are irrelevant to our investigation and focus on those that might contain evidence,” said Sam Brothers, a digital protection specialist with U.S. Customs and Border Protection. In homeland security investigations, time is of the essence, so Brothers and his colleagues use the RDS to filter out known files, “It allows us to separate the wheat from the chaff very quickly.”

Occasionally, investigators use the RDS not to exclude known files, but to find them, even if the filenames have been altered. For example, after Malaysia Airlines flight MH370 disappeared somewhere over the Pacific in March 2014, the FBI called NIST. “They wanted every hash of every file associated with every flight simulator we had,” recounted Doug White, the NIST computer scientist who runs the NSRL, “All the maps. All the routes. They wanted every flight path the pilot might have practiced on, so they could figure out where he might have gone.”

To assist the FBI in their investigation, White and his colleagues updated the NSRL with more than 120,000 flight map-related files.

Much of the software in the NSRL is donated by the companies that publish it. Another segment of the collection is composed of free software. After that, White decides which titles to purchase with limited funds.

“Our goal is to help investigators, so we prioritize the software they are most likely to encounter in the field,” White said, “We also focus on what we consider dual-use software – things that can be used for good or bad,” including keystroke loggers and network monitoring tools.

A unique national resource

The NSRL is unique not only because of its size, but also because the original files are kept under evidence-locker conditions. For software that was distributed physically, the original discs are kept under lock and key. For software that is distributed electronically, the original distribution files are archived on secure servers. That means that the original software can be retrieved, if necessary, as evidence in court or to verify the provenance of a title.

Although NIST generally does not distribute the software in the NSRL – only the software fingerprints – researchers can come to NIST and use the NSRL to develop and test forensic and security tools. Researchers also use the NSRL to study how software evolves over time and to trace newly discovered security vulnerabilities back to their first appearance.

Beyond the world of law enforcement and national security, the NSRL also functions as a cultural repository that is used by historians and other scholars.

How large the NSRL will ultimately grow is anyone’s guess. Perhaps centuries from now, NIST scientists will still be feeding it software. On the other hand, archaeologists might dig up its discs and set them spinning to unlock a record of an earlier civilization. But for now, the NSRL is a potent tool for forensic investigators, and with the addition of mobile apps, it just got a whole lot more powerful.
FLIR Systems Acquires Prox Dynamics for $134 Million

Acquisition adds unique nano-drone unmanned aerial systems leveraging Lepton capabilities to surveillance product range

FLIR Systems, Inc has acquired Prox Dynamics AS, a leading developer and manufacturer of nano-class unmanned aerial systems (UAS) for military and para-military intelligence, surveillance, and reconnaissance applications, for approximately $134 million in cash.

Based in Oslo, Norway and founded in 2007 by pioneers in nano helicopter technologies, Prox Dynamics develops, manufactures, and distributes aerial sensors that are revolutionarily small, light, and covert surveillance systems. Prox Dynamics’ Personal Reconnaissance System (PRS) features their Black Hornet aerial sensor and a hand controller, a system that is pocket sized and hand-launched by a soldier in the field, enabling a significant advantage in situational awareness and mission planning. The Black Hornet aerial sensor utilizes FLIR’s Lepton micro thermal camera, visible spectrum cameras, advanced low-power rotor technology, and proprietary software for flight control, stabilization, and communications. The Black Hornet helicopter is one of the lightest, stealthiest, and safest drones in the market, offering a highly advanced, lifesaving surveillance solution for traditional military forces and special operations forces. Weighing less than one ounce, the Black Hornet helicopter can fly for up to 25 minutes at line-of-sight distances of up to one mile.

The addition of the Prox Dynamics business will augment FLIR’s Surveillance segment by extending FLIR’s Airborne sensor product line and fully leveraging Lepton technology. FLIR intends to invest in optimizing the PRS platform to further enhance the range, cost, flexibility, and performance of the system. The Prox Dynamics team will benefit from close interaction with FLIR’s thermal sensor development group as well as the ability to leverage FLIR’s brand, distribution, and customer support infrastructure to better serve a global base of users. The business will become FLIR’s Unmanned Aerial Systems (UAS) line of business operating within the Surveillance segment.

“This acquisition adds a unique unmanned aerial systems capability to our portfolio. The Prox Dynamics team has created a highly-differentiated solution, incorporating our Lepton sensor, for advanced intelligence, surveillance, and reconnaissance that fits well with our vision for growth for our Surveillance segment,” said Andy Teich, President and CEO of FLIR, “The team at Prox Dynamics operates with a commercial mindset, which is a great fit for FLIR’s ‘commercially developed, military qualified,’ or ‘CDMQ,’ operating philosophy. We are excited to welcome the Prox Dynamics team to FLIR and look forward to working together to further advance this remarkable system capability.”

ACRE, LLC, Acquires ComNet

The company continues to rapidly expand presence in the global security industry

ACRE, LLC, the holding company that owns Vanderbilt Industries, Mercury Security and recently acquired ACT in Ireland, has announced the acquisition of Communication Networks LLC, a manufacturer of video and data transmission equipment.

The acquisition of ComNet builds on the ACRE family of companies, providing complimentary communication technologies utilized across its access control, intrusion, video and cloud-
based product ranges. ComNet offers a broad line of fiber optic, copper and wireless video and data transmission equipment that is designed to meet the needs of security and surveillance in the intelligent transportation systems, utility and industrial markets.

The ACRE portfolio consists of global brands that feature proven technologies and long-acclaimed reputations for innovation and a high level of customer service and support. Mercury Security provides innovative OEM hardware for facility security and access control systems. Vanderbilt provides over 2,000 products across traditional access control, intrusion, video and cloud-based access and video systems in 95 countries.

ComNet is a USA-based manufacturer of audio, video, data and Ethernet communication products headquartered in Danbury, Connecticut, with an International facility in Leeds, UK. ComNet focuses on manufacturing and sales of specialized communications and networking solutions to the security market, intelligent transportation system market, and power transmission and distribution market.

ACRE was formed in 2012 by industry veteran Joe Grillo as a platform to consolidate acquisitions in the electronic security industry. Prior to ComNet ACRE acquired the Schlage SMS business from Ingersoll Rand in 2012, followed by the 2013 acquisition of Mercury Security, the 2015 purchase of the Security Products Division of Siemens AG and the acquisition of Dublin-based ACT in November.

“ComNet is excited to join the ACRE group and recognizes the strength it will bring to the brand and the synergies that are immediately apparent with the other ACRE companies.”

– Andrew Acquarulo Jr
ComNet CEO and President

“In line with our mission, the ComNet acquisition, with their extensive offerings in the communication and data transmission technologies, continues to round out the product portfolio provided by the ACRE family of companies.”

– Joe Grillo
CEO, ACRE

Gemalto to Acquire 3M’s Identity Management Business

Transaction includes 3M Cogent Inc., Document Reader and Secure Materials Businesses

Gemalto has entered into agreements to acquire 3M’s Identity Management Business for US$850 million. 3M’s Identity Management Business comprises 3M Cogent Inc., which provides a full spectrum of biometric solutions with a focus in civil identification, border control and law enforcement, and 3M’s Document Reader and Secure Materials Businesses.

Headquartered in the United States and present on 3 continents, 3M’s Identity Management Business is a trusted partner to governments, law enforcement, border control and civil identification bodies worldwide. It offers world-class biometric based end-to-end solutions enabling identity verification and user-friendly authentication. 3M’s Identity Management experienced and highly-skilled team of approximately 450 experts has developed proven biometrics algorithms (finger, face, iris etc.) and is at the forefront of innovation with the latest multi-modal biometric solutions. Annual revenue of the business is approximately US$215M and profit from operations at US$58M.

As Gemalto pursues its expansion and prepares for the future, this acquisition both completes Gemalto Government Programs offer by in-sourcing biometric technology and ideally positions
the company to provide solutions for the promising commercial biometrics market. Their combined offers and experience in the public sector to manage the enrolment, identification of individuals, flow of passengers and border control should contribute to stronger national security. On the commercial side, as online and mobile transactions grow, new forms of multi-factor authentication and identification are needed to complement physical ID documents. Combining market access and technologies from 3M’s Identity Management Business and Gemalto will allow trusted national identities and strong biometric authentication to develop throughout the digital economy.

Once the acquisition is completed, 3M’s Identity Management Business will become part of Gemalto Government Programs business which recorded a revenue of €391 million in 2015.

The closing of the transaction is expected to occur in the first half of 2017, after approval from the relevant regulatory and anti-trust authorities and employee consultation where required. After the acquisition is completed, Gemalto will retain a strong financial structure with a net debt/adjusted EBITDA ratio below 1.5. The transaction will be accretive to adjusted Earnings Per Share. As part of their long term strategy and the development of this core technology across the businesses, the acquired business revenue is expected to grow at +10% CAGR with EBITDA margins above 20% by 2020.

“Gemalto is delighted to welcome new members to its international team. 3M’s Identity Management Business and Gemalto perfectly fit, solving authentication and identity management pain points across our customer segments, creating immediate increased differentiation and offering additional long term growth perspectives,” said Philippe Vallée, Gemalto CEO.

ONVIF®, the leading global standardisation initiative for IP-based physical security products, hosted its 15th ONVIF Developers’ Plugfest (ODP) November 9-11 in Taipei, Taiwan, at the Fullon Tamsui Fisherman’s Wharf in the city’s Tamsui District. With multiple testings of ONVIF conformant products, the Developers’ Plugfest included interoperability testing for five ONVIF profiles, including the newly released Profile Q and ONVIF’s video profile that is currently in development.

Engineers and developers from ONVIF member companies gathered at the members only event to test their implementations of ONVIF Profile Specifications with other ONVIF Profile-conformant products. In addition to Profile interoperability tests, all ONVIF clients had one hour of testing using ONVIF’s Device/Client Test Tool and were offered the opportunity to discuss with Test Tool developers any issues that arose during conformance testing.

“The ONVIF Developers’ Plugfest provides real-world, in person practical testing for our members before they release their ONVIF-conformant products in the market,” said Steven Dillingham, Chairman of ONVIF’s Technical Services Committee Taskforce, Developers’ Plugfest. “In many ways, testing a product at an ODP is one of the last steps in the process of developing and designing new technologies and preparing them for entrance into the marketplace. It is an important step in the conformance process and also presents developers and engineers from member companies with the chance to socialize and network.”

The Taipei Plugfest drew 42 technical experts from 15 companies from around the world. Attendees logged 136 hours of total testing time during the three-day event, with five of ONVIF’s profiles tested for interoperability, including Profile Q for out-of-the-box interoperability, Profile S for IP-based video systems, Profile C for IP-based access control and Profile G for edge storage and retrieval. Some developers also tested for interoperability using Profile T for video, ONVIF’s newest profile that is currently in development.

The Taipei Developers’ Plugfest also included a plenary meeting of the ONVIF Developers’ Plugfest Task Force, which announced that ONVIF’s 16th Developers’ Plugfest is scheduled for May 10-12, 2017, in Montreal, Canada, and will be hosted by Genetec.
When it comes to fire detection equipment, the rigorous design process, validation testing, testing before and during production and ongoing quality checks that authentic professional companies carry out are key to the reliability of their life safety products. Counterfeit products may, to the untrained eye, look identical, but no copycat product will ever benefit the end user in terms of protecting and saving life as well as one which has been through the meticulous testing procedures of a genuine and reputable fire detection manufacturer.

Testing times

During and after the design process, our products are subjected to the most comprehensive testing procedures to ensure performance and reliability to real life conditions is achieved. Our Havant site in the UK includes five test laboratories, which put every piece of equipment through its paces, not only as part of new product development, but also as ongoing quality control. Crucial to our success, we are the only UK manufacturer to benefit from our own in-house fire test facilities, and one of only a handful which is capable of in-house testing throughout Europe. These different laboratories, with £2.5m state-of-the-art equipment, cover every possible replicable scenario a product may encounter, from extreme environmental conditions to harsh electrical and radio interference.

The fire testing laboratory allows products to be tested in varying fire conditions, with the conditioning testing offering tests against a wide variety of different conditions, including fluctuating temperatures, humidity, vibrations and shock.

The performance and verification lab comprises large scale heat, smoke and gas tunnels and the electro-magnetic compatibility (EMC) lab tests against a variety of factors such as noise, interference, static and lightning strike conditions. Finally, the audio and visual (AV) laboratory is used to test the performance of notification devices to exacting standards.

The combination of these five laboratories results in a highly stringent testing process where products are not only tested to meet European regulations, but also the approval requirements of every country to which we supply our products. Such is the strength of our test facilities, that other fire detection companies regularly outsource the testing of their own products to go through the Apollo process, helped by the fact that our company is one of only a few manufacturers able to perform full EN54 product standard tests.

Once the testing stage is complete, a product will proceed to the third party testing stage for the appropriate certification, for example, EN54, before heading to manufacture. The whole testing process can take anything from three to six months for an MCP switch, to up to two years for a new fire detector.

The risks, and how to avoid them

The two main dangers of counterfeit fire detection equipment are firstly, their non-compliance with industry standards, and secondly, their non-compatibility within an overall fire detection system. In a situation where every single piece of equipment, no matter how small, contributes to the safe and effective working of a detection system, the
consequences of even one counterfeit element can be devastating.

The authenticity of fire detection equipment should never be taken for granted and should always be verified at source.

Checking approval logos and relevant certification numbers on the product is the first step in ascertaining a product’s authenticity. But what if a counterfeit manufacturer copies these logos and product numbers?

Chris Ellis, Laboratories and Validation Manager at Apollo explains how even the small details can give the game away, “Counterfeit manufacturers will try and save money wherever they can, and this scrimping on quality often shows in terms of their products. If you place a genuine fire detector next to a fake one, there are a number of differences which can often be seen. An example of these differences includes the grade, and therefore the colour, of the plastic used – genuine detectors tend to be a bright white, whereas counterfeit products are often a creamier-yellow colour. Also, if you take the front off a counterfeit detector, you’ll see a marked difference compared to a modern original. It’s a bit like comparing a 1980s TV with a modern one – counterfeit detectors often use old technology with cheap boards and lots of copper compared to the modern layered boards used today by reputable manufacturers. Other differences include details such as the quality of the labelling, and even the fact that the font on the labelling may look ‘cheap’ – all signs that the detector may be an imitation device.”

All of these pointers are great, but what if you are new to fire detection products, or have no genuine product against which you can compare?

The advice that we’d give would be to always use a reputable distributor or supplier, to do your background research by looking at a company’s website and checking your device against the images and certificates shown, and above all else, to use your common sense, as Chris Ellis comments, “Cost will almost always be the strongest giveaway when it comes to looking out for the warning signs of a counterfeit detector so if a product appears too cheap, then it’s worth making additional checks.”

LPCB provides the independent, third-party certification of fire and security products and services worldwide and we’ve worked with them for many years. Speaking about the issue of counterfeit fire detectors, LPCB International Business Development Manager, Tony Dodkin says, “The certifications which LPCB carry out give independent confirmation by an expert third party that a product, system or service meets, and continues to meet, appropriate standards. Certification gives suppliers and purchasers confidence that products and services will perform as expected – through a combination of regular company audits and a schedule of ongoing auditing.

“Our certification work in the fire detection industry sees us not only examining and certifying a new end product, but also carrying out factory inspections at manufacturers’ premises, random product audits, and equipment checks.

“We do receive requests from installers and distributors questioning the validity of new products that they are looking to install or stock, or checking that certification numbers are authentic and we welcome this level of vigilance. As well as checking directly with us, anyone wanting to check a genuine approved product can search the industry ‘red book’ – an online resource (red-booklive.com) which lists all certified manufacturers and their products. All users need to do is type in the certificate number and they can see a detailed description and also any additional testing details.

“The fire detection industry can be perceived as one which is slow moving in terms of new technology, but there’s no doubt that it is also one of the most driven in terms of industry standards and legislation. By taking advantage of checking a product against these many certifications, people can avoid the pitfalls of counterfeit devices.”

Conclusion

A true manufacturer’s product will, above all else protect and save life, and any building owner has the significant responsibility to customers, staff or whoever uses their facilities to ensure that this responsibility is taken seriously.
Since the late 1990s, iris recognition technology has been used in banks and airports as a means of identity authentication. Today, its use is widespread in government facilities, schools/ research centers, correctional/ judicial facilities, healthcare and others. There are a number of reasons for its rising popularity, but first, a brief overview of the technology is in order.

Iris recognition measures the unique patterns in the colored portion of the eye (the iris) and compares that ‘signature’ to the one on file in the system to verify and authenticate identity. The iris pattern has the most desirable properties for verification compared to other biometrics because of its uniqueness, stability over time and relatively easy accessibility. It also has the highest accuracy among all biometrics.

Ease of use

Today’s iris recognition systems have been designed for ease of use and to lessen any perceived concern about the technology. In fact, it’s as simple as taking a selfie. In the enrollment process a camera captures a detailed image of the iris and the system’s biometric software makes a template or ‘map’ of the person’s iris pattern for storage in the system. To verify identity later, an individual simply looks at the iris reader from a comfortable distance, and the system compares the patterns in the individual’s iris against the templates stored in the database. If there’s a match, the individual’s identity is verified.

Cost

Whether used in security or business applications, iris readers are proving cost effective – particularly from a lifecycle perspective. There are no cards to be replaced when worn out or lost; no RFID blocking sleeves are necessary to prevent hacking; and operations can be streamlined through reduced time and labor. Some systems allow scanning of up to 30 people per minute from a distance of several feet. And because no contact with the camera is required, either for enrollment or authentication, wear and tear on the cameras and contamination issues are greatly reduced.

Vulnerability

It has been said that using lower-accuracy access systems such as cards/ readers for facility access is the equivalent of locking a car door – easily compromised. Stolen cards can be duplicated or the information contained in the card can be used to hack into other areas of a facility. These vulnerabilities can lead to a less secure environment and put the safety of employees, visitors and assets at risk.

Iris readers can overcome many of these concerns and help ensure a higher level of security.
There are no cards to be lost, loaned or duplicated, and iris information cannot be falsified. An iris cannot be shared or stolen, and iris readers cannot be fooled by makeup, hair or clothing changes.

**Identity authentication**

In common access control systems, access is authorized either by the reader/controller or by the reader/server based on presentation of a pre-programmed access card by the individual. Neither decision is dependent upon any type of identity recognition. Without physical identity verification, the reader does not have the ability to confirm that the user is in fact the individual assigned to that card.

In a real sense, card-based systems are using the card as confirmation of the identity of the person carrying the card. However, because cards can be stolen, loaned, lost or duplicated, that link is both tenuous and vulnerable. Even two-factor authentication (i.e., access card plus PIN or password) can be defeated with readily available skimmers.

Iris recognition access control systems on the other hand require authenticated identification before allowing access. The individual is uniquely and permanently linked to their iris. Some readers even work in outdoor environments as well as through eyeglasses, sunglasses, and contact lenses.

**Multiple uses**

As an identity management solution, iris readers have been deployed in mainstream security locations in addition to environments as diverse as federal, state and local law enforcement, correctional facilities, travel and border security, healthcare and financial services as well as sports and entertainment venues. Outside security applications, organizations that are investigating ways to update and improve business procedures are considering the efficiency and productivity gains with the use of biometrics.

Examples include protecting against insurance fraud, maintaining time and attendance records, and even ensuring a patient gets the right medication in a hospital. And, because of the non-contact interface – the user simply looks into the iris reader – the technology is often selected for applications where the user is gloved, such as in pharmaceutical manufacturing or in a construction site or port, or in environments where users wear protective clothing.

**Integration**

Another benefit of iris recognition systems is the capability for integration with other security systems to improve access control security and provide greater operational efficiencies. For example, available today are IOM Android® tablets that fuse access control readers, biometrics, keypads, intercoms, cameras and more. These iris biometric-embedded tablets combine the accuracy and convenience of iris recognition with the functionality and customization of a mobile computing platform for increased security levels.

The high functioning tablets can also be integrated with building management functions and time and attendance systems for even greater efficiencies.

**Throughput**

Efficiency in system usage is critical for high volume throughput in applications such as airports’ border crossings. It’s also critical in maintaining efficient throughput in facility access or at large public venues where lengthy delays could lead to user dissatisfaction and ultimately security vulnerabilities. To overcome these obstacles, new systems on the market offer high speed, making it possible for users to simply walk through a checkpoint without the need to stop and look into a reader.

Iris recognition’s accuracy rates also contribute to ease of throughput. Its extremely low FAR (False Acceptance Rates) and FRR (False Rejection Rates) are superior to those of other biometric modalities, making it better positioned for widespread usage.

Iris recognition has proven to be a game changer in both physical and logical security. Its strong authentication capability also has potential for the home security market in devices such as biometric locks, Bluetooth devices and even cloud-based security. As costs come down, innovations will abound and the seven things you now know will help you navigate the future of biometric security.
EXTREMISTS creating unrest across the globe and preying on tourists led to Marriott properties and its sorts, falling easy prey to terror attacks. The Marriott properties sabotaged in 2003, 2008 and 2009 bombings in South Jakarta, Islamabad and Jakarta respectively, alarmed the industry globally and JW Marriott decided to re-address their security strategy.

Situation
Sysware Infotech Pvt Ltd along with VIVOTEK, were both a part of an undertaking that involved transforming JW Marriott Mussoorie Walnut Grove Resort and Spa, an analogue video surveillance customer, into an IP surveillance patron. The idea was to bring the property at par with the security trends adopted and followed across the globe. The duo predicted inadequacies that the hospitality giant could suffer using analogue, and wanted solutions that were highly reliable, consistent and more accurate.

Solution offered
Picking best suited models within a given budget and specifications in alignment with analogue camera solutions, VIVOTEK and Sysware Infotech segregated the cameras for multiple site types on the basis of lens types such as fixed lens camera; varifocal lens camera and size of the lenses.

Of these, varifocal lens cameras were installed outdoors and in public areas for maximum FOV (Field of View). Furthermore, the FOV of these cameras could be readjusted depending upon the changing needs of the customer. Fixed lens camera were mostly used in corridors or specific counter coverage requirements, for example front desk, laundry section and any point of sale section like the pastry shop etc.

Course of action
Touted to be its pilot hospitality project in India, VIVOTEK and Sysware Infotech charted the entire implementation process in three phases.

Planning phase
Comprehending the significance of security in JW Marriott Mussoorie, IP surveillance solutions were planted in their current locations on the basis of the property’s floor plans, site plans, and interior plans to better understand the camera utility in those areas. Furthermore, the duo operated within given security guidelines, specifications and budget given by the client.

Implementation phase
Realizing the criticality of the situation, cameras were deployed in certain areas even before the site was ready and was under construction. The team also used simulators before fixing the cameras to maintain accuracy and get a hang of the situation. Post implementation the devices were further fine-tuned.

Post deployment phase
The process of security solutions deployment didn’t end with the deployment. Post the placement, the entire commissioning was verified and then a user level training was conducted. Only after the training was the entire facility handed over to the in-house team.

Products deployed
A total of 125 IP network cameras were deployed in the project, including varifocal indoor dome – FD8131, ultra-mini indoor dome – F8D8136, outdoor bullet camera – IP8335H, outdoor speed dome camera – SD8322, and indoor speed dome – SD8121. Each model has different functionality and used case, for instance, speed dome model – SD8323 is...
being used for outdoor coverage as the resort is spread over 25 acres on a hilly terrain that experiences extreme low temperature and snowfall. Connecting these cameras, the software installed in the control room was QNAP NVRs.

Benefits to the client

Post installations, the client applauded the ease of management with features like remote viewing. Not only did they experience improved image quality but also the number of cables between the control room and cameras reduced greatly as compared to analogue solutions, mitigating cabling mess. Furthermore, the image quality is maintained with the use of UTP 6 LAN cables in IP cameras, which is better than coaxial cables that deteriorate faster.

Hikvision Secures Passenger Safety on Argentina’s Public Busses

Rosario, Argentina has undertaken a citizen-focused security project to implement surveillance cameras on public buses. Hikvision mobile network devices were chosen to improve bus passenger safety

Instances of crimes and violence (especially on city buses or at bus stations) motivated the Argentine city of Rosario to improve safety and security measures on the Urban Transportation System – or TUP as it is known locally.

Increasing the police presence to include an officer on each bus was both cost-prohibitive as well as uncomfortable for some TUP passengers. The final project proposal was based on best practices from other similar municipalities and involved an increased reliance on security cameras in each TUP bus.

How does it work?

The project began with the provision of having fifty buses outfitted with three security cameras. One camera sits over the driver’s seat and focuses on recording passengers entering and exiting the bus. The second camera perches near the driver’s seat and faces the rear of the bus. The third camera gets mounted above the last row of seats, aiming toward the front of the bus. All of the cameras are capable of recording audio as well as video. The cameras are connected to an NVR equipped to record 45 days of footage and save for review.

The camera footage is accessed and viewed remotely from one of seven terminals. Two of these terminals are in the 911 emergency dispatch center; two additional terminals are at the mobility monitoring center; and each of the three public transit companies – Semtur, La Mixta, and Rosario Bus – operate one terminal each. Security camera footage is immediately reviewed by an operator at one of the seven terminals and first responders are dispatched when necessary.

The cameras employed for this project are some of the best Hikvision units on the market. At the time of this writing, 300 Mobile IPC DS-2CD6510D cameras, 150 Mobile IPC DS-2CD6520D-10 cameras, and 150 NVR DSM 7508 HNI/GW/WI network video recorders had been installed.

Hikvision’s local distributor, Security One, played a crucial role in this TUP project. Security One provided the technical and training personnel to assist in presenting the proof of concept demonstration to Rosario municipal government, as well as configuring and installing the 3G and 4G networks on each of the buses. The Security One
team even arranged for Crayon Web staff to travel to the Hikvision manufacturing facility in China to integrate their software with the custom built video surveillance system.

Support for the municipality’s security

The first phase of the project involved installing 150 cameras and 50 NVR units throughout a test fleet of 50 buses. A 10 MG asymmetric and dedicated network was installed in the mobility monitoring center. The total cost for the first phase was approximately US$1.5 million.

Phase two is scheduled to include 300 additional buses. This will require 900 cameras and 300 network video recorders.

This project works in conjunction with fixed location surveillance cameras which have been in limited use throughout Rosario for several years. As both systems integrate and expand, Rosario becomes the example for every Latin American city facing the challenge to curb urban crime.

For more info:
www.hikvision.com

At the Australian headquarters of the leading global discount supermarket chain, quality is of paramount importance. Only the best products are offered to customers. This standard is maintained in every aspect of the international company, which is why the required parking guidance system had to meet the highest criteria. After extensive evaluation, Nedap’s SENSIT was chosen for its high accuracy and quick network. The implementation was realized by Holman Engineering.

The supermarkets’ Australian head office is located in Minchinbury, NSW, Australia. Part of the headquarters is the state-of-the-art Product Development and Quality Assurance Centre. It is the centerpiece of the supermarkets promise to deliver exceptional quality and value to their customers. It is here that new exclusive brands are developed and the ongoing quality testing of products takes place.

Quality guidance system

The same quality aspects also applied for the parking guidance system required to indicate the available parking bays in the car park and outdoor parking area. The system needed to be highly accurate and very quick in displaying the number of available parking spaces at various locations around the car parks.

Real-time parking information

Holman Engineering implemented a solution which uses optical sensors above each parking bay to determine the status of each parking bay for the indoor parking spaces. Nedap’s SENSIT was applied to monitor occupancy of the outdoor parking bays. SENSIT consists of wireless parking sensors that detect in real-time whether or not the individual parking bays are occupied and how long they have been occupied. The SENSIT Surface Mount is a vehicle detection sensor that is glued onto the surface of parking bays, which offers easy installation. The sensor is featured with dual detection technology, which ensures highly accurate detection.

The real-time occupancy information on all parking bays is displayed on several displays along the road. These displays show and indicate the number of available parking bays for visitors and in the general car parks.

Reporting and analyzing

The web interface on the Holman system allows the user to create many different reports, as well as see the status of the car park graphically. “Nedap sensors show an excellent detection accuracy due to the dual technologies featured in each sensor, which is key for providing real time information on availability of parking bays,” says John Holman from Holman Engineering.
Milestone Systems is the chosen solution for monitoring shipping traffic at Trondheim Harbor and 12 other harbors dotted along Trondheim fjord.

Trondheim Harbor faces challenging environmental and safety situations as a result of harsh Scandinavian weather, heavy freight transport and large passenger traffic. Nordic winds can cause cargo containers to sway while hoisted high above cranes; tractor trailers sometimes damage the piers when unloading cargo; and boats become unmoored.

As a ‘hub’ for 12 neighboring harbors Trondheim needed to advance its video surveillance system in order to centrally monitor all 13 sites which included Trondheim Harbor plus the neighboring 12 harbors. This surveillance needed to take place from a single location so they could become more proactive in addressing the variety of harbor issues.

Safety and environmental protection are key demands

Protecting the environment in instances of oil leaks during ship refueling, reduced theft, less vandalism, but also protects the environment in instances of oil leaks during ship refueling and catching incidents where strong winds cause ships to become unmoored. The International Ship and Port Facility Security (ISPS) Code is an amendment to the Safety of Life at Sea (SOLAS) Convention (1974/1988) and sets minimum security arrangements for ships, ports and government agencies. Adhering to ISPS code was vital in the Trondheim installation.

Milestone VMS as a safety hub

Milestone VMS now enables security personnel to get a sharp overview of safety issues and to respond far more quickly. Comprehensive coverage across the multiple harbors provides effective situational awareness so incidents can be brought into greater focus. The software controls cameras using PTZ and overlay buttons.

The Multi-site surveillance has been implemented by upgrading to Milestone XProtect Corporate 2016, Milestone Smart Client and Milestone Mobile Client.

Milestone partner, Triangel Consulting, designed the solution. By analyzing Trondheim Harbor along with the other ports, they identified a video solution that could integrate all locations in a central monitoring hub. Milestone XProtect Corporate 2016 was installed in Axis Q-series and P-series cameras. XProtect Smart Client was incorporated as an easy-to-use client application for daily surveillance operations. Its streamlined interface offers effortless user experience. The harbor patrolling guards were equipped with Milestone Mobile so they could access surveillance despite their physical location and quickly respond to incidents.

“We put great emphasis on involving the customer in the implementation phase and ensuring them necessary expertise,” states Finn Humborstad, Senior IT Business Consultant at Triangel AS. Triangel has been using IP-based technology since 1997.

Trondheim Harbor upgraded its
system so they now have approximately 70 cameras in total. They plan to expand with an additional 30-40 cameras and connect the video solutions from nearby harbors. They project replacing older cameras with new 5MP and 4K cameras. “The ability to scale up in the future is extremely important to us as well as having easy integration with analytics and other systems,” stated Roar Johnsen, Traffic Inspector at Trondheim Harbor.

Siqura announces two all-new, full-HD marine dome cameras: the Xtreme HSD870H3-MDC and the EXPLORER HSD870H3EXP-MDC. These cameras give crisp, clear image quality and unparalleled video surveillance in harsh offshore and onshore environments.

Extreme marine proof
Siqura’s advanced video surveillance solutions now include two robust PTZ dome cameras for harsh marine environments. The Xtreme HSD870H3-MDC is designed to withstand shocks of up to 10G, not uncommon in the offshore industry. On top of that the EXPLORER HSD870H3EXP-MDC is also flame resistant, for use in hazardous areas like Zone 1, for example. These cameras give operators real-time overviews of mission-critical operations, even in the most extreme conditions.

Full HD
The Marine, Oil and Gas industries include the fast-paced world of drilling rigs and super tankers. Rewards can be high, but there are also risks. Incidents that are not dealt with immediately may interrupt operations and pose a threat to public safety. The HSD870H3-MDC and HSD870H3EXP-MDC provide users with full-HD 1080p video quality at 60 frames per second. This results in crisp images and real-time control. For distribution and recording purposes, users can choose from four IP streams in optimal formats and quality.

Click and Go
Siqura has devised a unique way of mounting the marine dome, for easier installation and maintenance. The entire camera system is mounted securely with just a few nuts and bolts. This takes the hassle out of placing or replacing a camera. With the Siqura Click and Go system, the task is complete in just a few brief minutes.

Straight forward
“Our marine dome cameras are excellent examples of how we join high quality camera solutions with user-friendly designs,” says Peter de Konink, Product Line Manager at Siqura, “By listening closely to marine industry experts we are able to develop solutions that let our users see more detail, whilst allowing them to maintain constant and clear visual observation. With these cameras we help users increase safety and continuity, and reduce costs.” All components are designed to increase situational awareness and detect incidents before they escalate.
Introduction

Founded in 1867, Les Lilas community is located 5.7 km (3.5 miles) from the center of Paris in the eastern suburbs. The local government facilities are spread across the community to provide the best services, as close to the residents as possible.

Challenge

The community’s municipal government was in need of a cost-effective, robust network solution to interconnect its government offices and its data center. They had been using leased line networks for years; however over time, this approach was turning out to be cost prohibitive. Consequently, the municipal IT team decided to replace its existing wire line network with a high capacity, reliable and cost-effective wireless network infrastructure.

Solution

Following an elaborate RFP process and evaluation of all the available solutions, the IT team selected Proxim’s outdoor wireless radios. First implemented in the year 2009, the IT team partnered with Axiome Services and Proxim Wireless to deploy a wireless network spanning from the datacenter to all the public service departments. The network consists of fifteen remote locations equipped with Tsunami® point to point series links connecting to the datacenter located at the center of the town.

Proxim selected again in 2016

Due to increasing bandwidth demand to support heavier applications, the IT team once again turned to Axiome Services to upgrade its Proxim network. The deployment includes the next generation Tsunami® 10100 point to point series radios for the data center connectivity. The recently introduced, Tsunami QB-10100 delivers over the air data rate of up to 867 Mbps and leverages the strengths of Proxim’s proprietary WORP® and Proxim ClearConnect technology to deliver carrier class performance.

Why Proxim?

“Proxim’s equipment has stood the test of time. The performance has always been reliable and consistent in any sort of weather and the performance/price ratio is unmatched. We are also pleased with the after sales technical support services and local support offered by Axiome Services. Based on the performance, we are looking to further upgrade our network with Proxim’s latest generation products” said Michel Rosier, Director of IT services.

Result

Utilizing Proxim’s outdoor high capacity backhaul wireless solutions, the city government successfully replaced its wire-line system to provide its departments with high-speed wireless connectivity at a cost significantly lower than the existing leased line.
HID Global® has been selected by CafeX to modernize its access control solutions, providing both employees and visitors a secure and convenient access control solution that integrates into their everyday lifestyles in the workplace. This supports CafeX’s strategy to provide its employees and visitors with the most advanced access control solution and a significantly improved end user experience.

Winner of numerous industry awards, CafeX develops software that helps enterprises – including many top global banks and insurance companies – transform customer engagement and workforce collaboration via the Web and mobile applications. The company has implemented a centralized mobile access control solution enabled on smartphones and wearables for its international office locations. Employees and visitors use HID Global’s patented ‘twist and go’ feature or simply tap their smartphone on the HID Global reader in order to access the building or other sensitive entrances within the offices.

Kevin Glass, Chief Innovation Officer with CafeX said, “Thanks to HID Global, we have been able to offer the very latest mobile access control technology to our employees and visitors. It has resulted in our employees and customers having an enriched user experience that they are finding very convenient and innovative.”

The company has streamlined its business processes, thereby reducing administration costs and saving money, as it is very simple to issue, manage and revoke Mobile IDs to smartphones and wearables. HID Global collaborated with regional experts, Controlsoft, a HID Global platinum partner in the UK and USA in order to meet CafeX’s requirements.

“HID Global’s mobile access control solution was easy to deploy and to integrate into CafeX’s credentials management platform. The readers are simple to configure, which made it possible for us to provide CafeX with an identity and access management solution very speedily,” said Jonathan Summers, Managing Director with Controlsoft.

“The ability to use smartphones and wearables for access control is becoming increasingly essential, as these devices are part of our everyday lives in the business workplace,” said Harm Radstaak, Vice President and Managing Director of Physical Access Control Solutions with HID Global, “CafeX’s implementation in their international offices is a testament of the growing adoption that merges convenience and security in a mobile-first world.”

HID Global’s mobile access control solution also helps CafeX meet compliance requirements for its financial services customers. These and other Global 2000 companies typically require tight security around any sensitive data.

“HID Global’s secure access control solutions are regarded as the best and most well respected in the industry. Our financial customers are very happy to know we have implemented HID Global’s access control solutions. We have already recommended HID Global to a number of our clients given our high level of satisfaction,” said Kevin Glass at CafeX.

HID Mobile Access enables the use of smartphones and other devices to open doors and gates with a ‘tap’ or from a distance using the company’s patented ‘Twist and Go’ gesture technology. Powered by Seos®, HID Mobile Access supports Bluetooth Smart and NFC use on a variety of Apple and Android mobile devices. The solution includes mobile IDs, mobile apps, mobile-enabled iCLASS SE® readers, and its HID Secure Identity Services® portal for straightforward, efficient provisioning and revoking of mobile IDs.
Honeywell Process Solutions (HPS) will provide an integrated control and safety system for the strategically important Trans-Anatolian Natural Gas Pipeline (TANAP) in Turkey.

The system will ensure reliable and safe operations of compressor stations along the entire length of the pipeline. The Southern Gas Corridor is a critical part of the European Union’s strategy to enhance its energy security. The TANAP system will be able to transport up to 31 billion cubic meters per year of Caspian and nearby regions’ natural gas.

“Honeywell has a long history of working with critical energy projects in Turkey,” said Orhan Genis, President of Honeywell in Turkey and Central Asia, “This important project will help to secure a supply of natural gas not only to this country but across Europe.”

The 1,850-kilometer long TANAP will carry natural gas from Turkey’s eastern border with Georgia to its western border with Greece. According to Eurogas, demand for natural gas in Europe will grow at about 2 percent a year through 2030.

“Honeywell’s integrated solutions will enable TANAP to detect and resolve operational issues early, enhancing reliability for this important project,” said Pieter Krynauw, Vice President and General Manager for HPS’ Projects and Automation Solutions business, “Honeywell provides automation controls and safety solutions for almost 94,000 miles of natural gas and liquid pipelines, including many of the world’s longest systems.”

Honeywell will provide the project with fully integrated control and safety solution products, technology, engineering and support. It includes the distributed control system (DCS), emergency shutdown system (ESD), and an extensive fire and gas solution consisting of safety systems, fire alarm panels, and a full range of process and non-process area detectors and devices).

Honeywell’s system integrates all process control and safety systems and automation software under a single unified architecture at TANAP Stations. The system improves operators’ visibility and situational awareness to detect, avoid and respond to incidents that could endanger people, the pipeline or the environment. It will also help TANAP provide uninterrupted supply through the pipeline.

The TANAP project employs some of Honeywell’s leading technologies:
- Experion® PKS (Process Knowledge System) advanced automation
platform and software applications help improve business performance and peace of mind. Drawing on data from across the pipeline, Experion PKS helps operators make fast effective decisions to improve safety, reliability and efficiency.

- Safety Manager, Honeywell’s safety solution, integrates process safety data, applications, system diagnostics and critical control strategies to detect and prevent dangerous conditions. As well as automatic, safe emergency shutdown, Safety Manager will also give TANAP tools for root-cause analysis to drive improved system performance.
- The XLS80 Fire Alarm Control Panel with an intelligent, flexible design and a user friendly interface for the highest safety standards and reliability.

Morpho Australasia Goes Live in Christchurch Airport in New Zealand

Safran Identity & Security, through its subsidiary Morpho Australasia, has completed installing the next generation of eGates into Christchurch Airport

This installation is part of national upgrade and innovation programme for 51 new generation border processing gates for the New Zealand Customs Service (NZ Customs). The rollout has seen new generation Safran Identity & Security’s eGates installed in Auckland, Wellington, Queenstown and now Christchurch airport.

Since 2009, Auckland, Wellington and Christchurch airports have been using SmartGate to give eligible travellers the option of self-processing through passport control. The system uses facial recognition technology to compare facial images of the traveller against the data contained in the e-Passport’s chip. Over 18 million passengers have successfully used the system.

The new generation eGates speed up the traveller experience with a one-step process, eliminating the kiosk and ticket which was part of the process with the previous gates. They also have a smaller footprint to meet the space constraints of airports, whilst also having Safran Identity & Security’s latest workflow and biometric matching software.

“Since its introduction in 2009, SmartGate has been increasingly popular with passengers and has helped manage growth in passenger volumes. The eGates allow passengers to pass through quickly and easily, and enable Customs officers to focus on managing high risk travellers at the border.”

– Carolyn Tremain
Comptroller and Chief Executive of NZ Customs

Tim Ferris, Managing Director of Morpho Australasia said, “As a company, we are focused on providing NZ Customs with a range of innovative services and technologies to help with passenger flow. We are proud of our joint innovation journey and are looking forward to launching the next series of passenger technology to help NZ Customs continue as world leaders at the border.”

Traveller volumes in New Zealand are expected to increase by 4-5% annually, or around 2.3 million to nearly 12.7 million by 2019.
Avigilon Security Solutions Selected for Miami Dolphins’ Hard Rock Stadium

Avigilon partners with G4S to secure the Miami Dolphins

Avigilon Corporation’s high definition surveillance solutions have been selected to protect Hard Rock Stadium located in Miami Gardens, Florida. Hard Rock Stadium is home to numerous world-class events and sports teams, including the Miami Dolphins, University of Miami football team, Capital One Orange Bowl, Super Bowl LIV and the 100th anniversary of the NFL, international soccer and a host of world-class events.

G4S has completed phase one, installing the Avigilon Control Center (ACC) software and 229 Avigilon surveillance cameras at the 65,000-seat Hard Rock Stadium and the Baptist Health Training Facility at Nova Southeastern University. Phase two of the installation will include 600 additional Avigilon cameras.

Miami Dolphins Senior Vice President of Operations Todd Boyan has been impressed with the results, “Avigilon and G4S have successfully created a state-of-the-art security solution. Avigilon security solutions enable us to monitor the crowds and gives us the ability to identify and respond to potential security issues in a proactive manner.”

Avigilon’s solutions are being used to protect stadiums and other large venues around the globe. Using Avigilon’s HD Pro cameras, the entire seating area of a venue can be covered while providing enough image detail to zoom in and get a clear image of any visible individual or event in question.

“G4S has been working with the Dolphins’ security and IT functions to deploy a comprehensive and integrated security solution that we believe will become a model for how security is delivered and managed at other major sporting and events venues,” said John Kenning, Regional CEO, North America at G4S, “Teaming with Avigilon was the right choice as part of this security solution due to their experience securing high-profile stadiums around the globe, quality products and focus on customer service.”

First responders in New South Wales will benefit from greater communication and officer safety through a major upgrade to the state’s radio network.

NSW Telco Authority (NSW TA) is partnering with Motorola Solutions to upgrade 150 radio sites used by public safety organisations, as well as expanding network coverage with 23 new sites in the state’s north west.

The network upgrade will improve the communications technology used by New South Wales’ emergency services every day while also ensuring the state is better prepared to deal with major emergencies and natural disasters.

The AUD 30 million project will provide emergency services and other New South Wales agencies with access to enhanced voice and data communications, extensive coverage, interoperability and resilience to support their daily operations.

The upgrade also represents a key milestone within the NSW Operational Communications Strategy and Critical Communications Enhancement Program, which is providing improved technology to frontline personnel and improving the quality and efficiency of radio communications across the state.

Motorola Solutions’ Vice President and Managing Director for Australia and
New Zealand, Steve Crutchfield, said the upgraded radio network has been designed for reliable performance in the harshest conditions with built-in failover capabilities to support peak events and emergencies.

“The project will provide New South Wales agencies with trusted voice communications and resilient performance so they can perform their essential daily work safely and efficiently,” Crutchfield said, “User agencies will also receive up-to-date radio technology for the next five years and beyond, as well as the flexibility to introduce next generation capabilities over time. This includes digital radios that provide a richer set of features including location and mapping data, improved security, extended coverage and new and emerging applications to keep New South Wales agencies at the forefront of innovation.”

The project will also benefit New South Wales’ economy, with additional third party resources employed by Motorola Solutions, both directly and indirectly, helping to deliver the upgrade.

In addition to the radio network upgrade, NSW TA has deployed Motorola Solutions’ WAVE application within its radio network, giving first responders more ways to stay connected.

The application enables New South Wales public safety agencies to securely extend the reach and capability of their radio communications to team members carrying smart phones, tablets and other mobile devices.
Involved with activities that take place on gaming tables, casinos become one of the places requiring surveillance systems with advanced technology. While guests take part in the games with excitement, it’s crucial to have every moment closely monitored to avoid potential disputes. With Surveon’s professional casino solutions, including a series of HDR cameras, 5 megapixel fisheye cameras, enterprise hardware RAID megapixel recorders as well as central management software, also called as Surveon Control Center (SCC), casinos can easily track every event that occurs at any time with improved profitability while saving costs.

The complex light conditions and the demand of view angle coverage on different areas like card tables, lobby or reception counters are some of the challenges for casinos to overcome. The excellent performance of Surveon WDR cameras helps meet these demands. The 3 megapixel cameras provide 1.5 times larger monitoring range at 30fps, becoming an ideal option for monitoring areas with high speed activity, such as roulette wheels. Moreover, the PTZ cameras offer wider view angles and coverage with excellent megapixel image quality, protecting the staff and guests from potential threats. Among Surveon camera selection, 2MP compact box CAM2311SC with WDR, 3MP indoor dome CAM4321LV with 3-axis support, 2MP PTZ dome CAM5330SZ with 10x optical zoom, 3MP outdoor speed dome CAM6471EZ, and 5MP indoor fisheye CAM7511 are to be recommended for such applications.

Supporting up to 64-channel 5MP recording, the Surveon NVR2100 Series with hardware RAID was chosen to provide large capacities for longer video retention periods, overall system stability and zero video loss. In addition, it’s hot-swappable, thermal proven cables and redundant components with industrial grade standards make it possible to achieve 24/7 non-stop megapixel recording for casino applications. Paired with Surveon Enterprise VMS with SCC management software, the advanced matrix wall management enables casinos to monitor every image without negligence.

Surveon casino solutions have been successfully adopted in Phoenix Casino, Vietnam. “Finding a reliable surveillance partner is always the goal we are aiming for. We are glad that Surveon offers such a comprehensive product line-up to fulfill our needs at once! The performance and image quality have enhanced our efficiency conducting surveillance tasks. The running applications are reliable and quite satisfying” said the Managing Director for the surveillance deployment in the casino.
Kia Motors Slovakia is the most modern production facility of the car producer Kia Motors that can be found in Teplička nad Váhom not far from the town of Žilina in the Slovak Republic. It is the first and only Kia production facility in Europe.

At present, there are dozens of cameras and NVRs of the Uniview brand in the facility. Part of the cameras that have been installed there allows operators to monitor the delivery of components intended for the car production process. The rest of them are in charge of recording key production activities.

Integrate image into traceable production system

These cameras are in charge of an important part of the production process, in which sealer is applied to those car components that are subsequently welded. The operators are able to monitor sealer application in real time through camera live view and they can stop the production process when a fault is detected; at the same time, all robot activities are archived by snapshots. All robot actions at the monitored workplace are paired with car VINs (Vehicle Identification Numbers) – this way, all actions performed at the monitored workplace are traceable with not only written information but also pictures and videos.

A brand new way of video surveillance for manufacturing

Uniview provided a brand new way of video surveillance which not only provides images, but is also fully combined into production, helping to record key production moments and can easily trace back together with other production records.

Moreover, Uniview special firmware and specialized proprietary U-code codec ensure extremely short response times and significant reduction in data flow and storage space. Uniview industrial cameras provide very high image quality and attractive design suitable for modern production facilities.
Over the years, the control room operator’s tasks have become increasingly complex. The number of sources and data inputs has grown massively, while regulations, industry standards, and individual companies’ operating procedures strictly control how the plethora of operator applications are integrated.

In this paper, we concentrate on some of the underlying technology issues that have a significant impact on operator efficiency. Resolving these issues can boost operator efficiency as well as job satisfaction.

The sweet spot of system integration

At one end of the spectrum, we find operator workspaces composed of numerous applications, all running on stand-alone systems. Monitoring and control are conducted via separate operator stations, each with a dedicated screen, mouse and keyboard. Function key and HMI (Human Machine Interface) conventions also vary from application to application. For reporting tasks, operators must gather information from multiple systems – which is time-consuming, slowing down operator response times, and requiring the operator to remember information from several different systems (because drag & drop is not available across these disparate systems).

Sounds like a recipe for disaster? It is... tried and tested. Psychological studies show that interpretation and retention are reduced during periods of stress, which leads to overload and operator error.

Integrated systems, on the other hand, provide many advantages and opportunities. At the positive end of the spectrum, we have control rooms in which all necessary process control and safety information is presented by a single integrated system allowing information from different sources to be made available to other support applications (such as Information Management Systems, shift logs, production monitoring, etc.), so that reports, key performance indicators and other data can be easily shared. Such a system enables reports to be generated and distributed automatically, relieving the operator of this task. The main drawback of such a solution, however, is the cost, time and effort of implementation.

But there might be a more practical way – the sweet spot – to achieving higher operator efficiency: some level of desktop integration that is more cost- and time-effective than full system integration and that does not risk invalidating application warranties and maintenance agreements. As we’ll explain later on, visual integration allows ‘blending on glass’ and avoids security compliance issues and vendor dependencies.

Control room layout and impact on efficiency

Lack of some level of integration can have a major impact on the control room’s physical design – impacting space requirements, layout and workstation ergonomics.

At the negative end of the spectrum, we find control rooms with a lot of separate system hardware components assembled in an ad hoc, haphazard way. The result is a confused layout and cluttered workstations, with no overall structure, requiring operators to move both physically and mentally between systems. When operators must move from one system to another to complete a task, the chance of human error increases, and the movement might cause a delay in noticing an event. This can slow down operator response time and leaves little chance for an early recovery. KVM (keyboard, video and mouse) switches can reduce the number of keyboard and mouse sets, but they require the operator to manually select which system the KVM is connected to. Also, KVM solutions – typically a one-application/ one-screen concept – have very limited flexibility with regard to optimizing visualization.

Good system integration presents the opportunity for a much more efficient and ergonomic control room layout. Indeed, we are seeing more compact workstations with displays for both process control and information management, along with Large Screen Displays either on or off workstation. All of these elements are used together to create a more unified work-
space. Moreover, less hardware reduces weight, so that adjustable desks with sit/stand options can be used – which result in better posture and the opportunity for movement, improving operator health and reducing staff turnover.

In a unified workstation, information from different systems can be brought together and presented in accordance with ergonomic principles – i.e., key information in the primary field of view, less important information in the secondary field. A single keyboard and mouse are used to access multiple screens or applications, reducing clutter and confusion. A unified workstation also combines audio outputs, freeing up workspace and eliminating the costs of multiple speakers.

In addition to the ergonomic advantages, these unified workstations can contribute to improving operator communication and situational awareness, especially in large control rooms. One important aspect that Human Factors design studies look at is ‘adjacencies’ – that is, which operator roles are most closely related; which operators communicate most frequently; which operators need a common overview of a portion of the process? A more compact layout enables operators to be grouped more effectively and improves direct communication between them.

As a more integrated workspace also reduces the operator’s switching between applications (both physically and mentally), operator frustration and workload are reduced, which can help optimize staffing. Another cost-benefit of more compact workstations is that the size of the control room can be reduced, with figures of up to 35% reduction in floor space being quoted.

**Visual integration is the key**

System integration also has a significant effect on the HMI – the operator’s window into his/her world. Good HMIs are the key to great Situational Awareness. On the other hand, disparate HMIs increase operator workload and the risk of error. Compounding the problem, operators might not always be physically in front of the right application or screen at the right moment. This makes it difficult to gather the right information in a timely manner to diagnose problems. Worse yet, this information may even be obscured by another application window that is irrelevant to the situation.

At the extreme end of the spectrum, where control room design follows standards such as ISO 110643, we find fully integrated HMIs based on a user-centred design process underpinned by an HMI Philosophy and an HMI Style Guide. However, such an approach may not be easy to apply to upgrades, where legacy equipment and systems are involved, or in some industries where many different vendors and different types of applications are involved.

There is good news though. Technology has evolved within the visualization space so that there is an alternative for such extreme levels of HMI integration as mentioned above. Visual integration delivers many of the benefits – but avoids the cost – of multi-application HMI integration. This means that the right information can be presented directly in front of the operator precisely when he needs it. A visually integrated system also allows for the single mouse and keyboard interaction. Plus, visual integration also allows the operator to optimize his environment to his personal needs or the requirements of operations in normal or special event mode. Another benefit of this approach is that it enables operators to save their personalized settings and activate them at any operator workstation at any time. Finally, the flexibility of visual integration does not compromise corporate policies and procedures regarding the IT infrastructure.

**Conclusion**

Readers might recognize some of these issues – perhaps you’ve experienced some of these challenges yourself. Whether you are considering a new-build or a modification of an existing control room, having a clear understanding of your requirements and where you aspire to be should help you address these challenges in a practical and cost-effective way.

This paper has discussed a number of key criteria an ideal control room design should take into account – such a system would:

- Integrate multiple applications, while respecting security regulations.
- Offer one keyboard/mouse/audio setup, with no need to switch between workstations.
- Be a standard system, not needing a lot of integration effort.
- Not violate the warranty agreements from application vendors.
- Incorporate ergonomic principles.

For both new-builds and modifications, arriving at a solution that stays within the budget and timeline is the big challenge. As an alternative to fully customized and expensive system integration, Barco has designed OpSpace, a system that meets the criteria mentioned above.
Sony’s New High Sensitivity Network Cameras with Exmor R™ CMOS Sensors

The eight new cameras provide cutting-edge image capture technology with minimum illumination of 0.006 lux

Sony’s latest line-up, the sixth generation (G6) network cameras, comprising eight new Full-HD video security cameras that deliver on the ever increasing demand for greater image clarity the video security market requires.

The new G6 cameras include:
- V-series: SNC-VB640, SNC-VB642D, SNC-VM641, SNC-VM642R

Using advanced imaging technology, Sony’s G6 cameras offer security professionals clear detail and higher visibility with excellent low-light sensitivity, ideal for a wide range of demanding applications, including city, transport and commercial surveillance.

Further displaying Sony’s heritage in core technologies, the latest G6 cameras are equipped with high performance image sensors, lenses and image processors. They can capture images beyond the reach of conventional security cameras, providing security professionals with better visibility and greater accuracy.

This improved sensitivity is made possible with Sony’s Exmor R™ CMOS sensor and eXcellent Dynamic Noise Reduction (XDNR™). The technologies offer optimum clarity with noise and ghost free images, allowing the new cameras to achieve the minimum illumination figure of 0.006 lux (30IRE), 0.01(50IRE). With the high sensitivity, colour integrity of images is maintained even in poorly-lit conditions allowing operators ease of identification. This low light capability is especially invaluable in applications such as city surveillance at night, which is increasingly common and a fast-growing area of demand in the security industry.

Security professionals can now capture 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. This extended range is possible thanks to the Exmor R™ sensor. Together with the powerful integrated IR illuminator, the cameras are able to capture high-quality IR images without overexposure. This industry-leading feature equips security personnel with more accurate and insightful imagery, encouraging swift and intelligent decisions.

Reacting to the increasing customer requirement for SD card recording and 2-way audio, Sony ensures that the new E-series is equipped with a stronger feature set. 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, providing security personnel peace of mind.

Further, the new E-series now supports 2-way audio features, providing users with remote intercom and audio recording functionality in a cost effective package, wherever it is needed.

These new features of Sony’s V and E-series range not only provide enhanced imaging technology, but also incorporate the same User Interface, usability and Network Video Management Software connectivity that is present in Sony’s existing solutions.

“High-quality imagery is at the heart of our business, which is why we continue to invest in new technologies to bring our customers the best possible images they’re trying to capture,” said Riki Ni-
shimura, General Manager, Business & Industrial Solutions Marketing Division, Professional Solutions Company (PSAP), Sony Electronics Asia Pacific, “Investing in these technologies is all about meeting the changing needs of our customers, which is why these new solutions have been designed with features that help users improve accuracy and make quicker decisions, from improved visibility in low light to increased range.”

Sony’s latest G6 cameras are planned to be available in Asia Pacific from March 2017 onwards.

For more info: www.pro.sony-asia.com

Safran Identity & Security Launches 2nd Generation Biometric Tablet: Morphotablet™ 2

Safran Identity & Security, world leader in identity and security solutions, announces the launch of its second generation biometric tablet: MorphoTablet™ 2. With higher speed and greater features than its predecessor, MorphoTablet 2 is a unique, multi-functional tablet which delivers high accuracy biometric acquisition and matching, whenever a mobile solution is needed.

The new mobile secure ID device builds upon the multiple successes of its predecessor, used in a variety of applications and markets throughout the world. These range from civil registration and election programs in Africa, time & attendance and border control operations in Europe and electronic customer registration (eKYC*) procedures in Asia.

MorphoTablet 2 is designed for fast, on-site registration, especially in remote locations. Its slim, yet robust design seamlessly incorporates one of most sophisticated biometric sensors in the industry, certified by both the FBI and the Indian Standardization Testing and Quality Certification Directorate (STQC). It also features a 13 mega-pixel camera with a dual illumination system, capable of capturing high definition portraits in poor lighting conditions and reading barcodes and passport Machine Readable Zones (MRZ). A wide 8-inch color touchscreen protected by toughened glass ensures easy data entry and smooth signature acquisition.

Both contact and contactless readers integrated in the compact tablet provide complete e-document reading capability: e-passports, ID cards, visas, driving licenses and corporate badges of multiple types. MorphoTablet 2 is a flexible solution to verify an individual’s identity on-the-spot: travelers at borders, voters in polling stations, drivers, employees clocking in/ out, students passing an exam, patients receiving care etc.

Safran Identity & Security’s world leading fingerprint and facial algorithms embedded in MorphoTablet 2 deliver fast one-to-many on device matching, against large databases stored in the device’s internal memory. The 4G and Wi-Fi terminal is also capable of interfacing remotely with external databases, and providing real-time identification results directly in the field. An additional layer of security features also ensures sensitive data protection.
The Android-based device offers two software options: a proprietary suite of applications covering most common use cases and a Software Development Kit available for integrators to custom build applications. For instance, banks or telecom operators can implement their own digital customer on-boarding applications to prevent ID fraud when opening an account or activating a SIM card.

*eKYC or electronic ‘Know Your

**For more info:**
www.safran-group.com &
www.safran-identity-security.com

Ez-Path® Fire-Rated Pathways Fully Compliant and Maintenance-Free

Specified Technologies, Inc. (STI), an innovative leader in the firestop industry, announces that in an industry first, Underwriters Laboratories (UL®) has designated its fire-rated pathway to be fully code compliant and maintenance-free. Because they are self-sealing, have no moving parts, and are exempt from maintenance requirements, EZ-Path® Pathways are now confirmed as the only rated devices that eliminate downstream costs, paying for themselves again and again by providing ongoing compliance right out of the box.

**Provides continuous life-cycle savings for building owners and operators**

Ongoing maintenance and inspection of firestop products can have a disproportionately large impact on building profitability and operational costs over time. By providing a totally sustainable, fully compliant cable management solution exempt from maintenance for the lifecycle of the building, EZ-Path® Pathways present broad savings and profitability implications for building owners, operations and facilities management administrators, and IT professionals.

According to STI’s Vice President of Engineering, James P. Stahl Jr., CFPS, CDT, “This designation by UL® confirms our positioning that EZ-Path® Fire-Rated Pathways are the industry’s only maintenance-free cable pathway devices that eliminate downstream cable pathway devices that eliminate downstream maintenance, and repair activities (and possibly inspection) associated with other firestop sleeves.

This truly provides contractors, building owners, and maintenance professionals with the best total cost of ownership of any rated cable solution on the market.”

**Mitigates health risks resulting from maintenance in hospitals**

According to STI’s Senior Advisor for Healthcare and Former ASHE Deputy Executive Director, Douglas S. Erickson, FASHE, CHFM, “Being exempt from maintenance in the healthcare physical
Dahua Technology has introduced its multi-lens 180-degree panoramic network IR bullet camera. Dahua IPC-PFW8601-A180 provides added flexibility for capturing wide area video surveillance. With real-time image splicing technology, the camera has three 2MP sensors working in tandem to create a comprehensive 180-degree view. This camera replaces multiple single-sensor cameras to lower cost of installation, storage and maintenance.

Adjustments can be made to each sensor on contrast and brightness to achieve crystal-clear panorama view. The multi-lens camera supports day/night mechanical IR cut filter and true WDR (120dB) which make it ideal for applications in fluctuating lighting conditions. In addition, this camera deploys Dahua Starlight Technology to deliver usable video with minimal ambient light.

The camera is equipped with built-in intelligent video analytic algorithm, which can realize functions like tripwire, intrusion, abandoned object, missing object, to quickly and accurately respond to events in specific area. At the same time, the camera features face detection and intelligent tamper detection, which means more efficient security surveillance.

The camera has smart IR technology which can adjust the intensity of the camera’s infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera.

With an operating ambient temperature range of -40°C to +60°C, IP67 and IK10 rating, this camera suits almost any outdoor applications including open and expansive areas like borders, coastlines, highways, squares and stadiums.

For more info: www.dahuasecurity.com

Driving innovation with another industry first

In a first for the construction industry, a firestop product has been designated as maintenance-free for the lifecycle of the building. STI has obtained an objective third party UL® Evaluation Services Report (ESR) confirming that EZ-Path® Pathways are fully fire and smoke compliant with IBC, IFC, and NFPA 101 Life Safety Code and “Do not require regular maintenance when properly installed.” No other firestop product can make this claim.

For more info: www.stifirestop.com
FLIR Systems, Inc. announced the FLIR RSX-F intelligent sensor for advanced fire detection inside rail coaches. The FLIR RSX-F uses the FLIR Lepton® thermal sensor and high-definition visual imaging for fire and occupancy detection as well as CCTV monitoring.

The FLIR RSX-F uses a thermal sensor with on-board fire detection algorithms to detect a fire faster and more accurately than conventional methods. The FLIR RSX-F detects thermal energy emitted from objects within its field of view and sees through smoke. The dynamic video detection algorithms also determine the size, rate of temperature increase, and movement of a hot spot. This approach allows for lower false alarms by distinguishing hazardous events like cigarettes or lighters.

The FLIR RSX-F also measures seat occupancy in a passenger train, which allows train operators to optimize passenger flow or improve passenger comfort by sensing temperature and adjusting train-based HVAC systems. The FLIR RSX-F mounts easily to walls or ceilings and tilts up to 45 degrees for optimal viewing. The FLIR RSX-F sensor is also fully compliant with the EN 50155 standard covering electronic equipment used for railway applications.

“The FLIR RSX-F sensor provides a significant new asset for train operators to improve safety,” said Andy Teich, President and CEO of FLIR, “By leveraging Lepton and advanced fire detection algorithms, the FLIR RSX-F provides train operators with a ‘sixth-sense’ to detect hot spots early and effectively to increase passenger safety.”

For more info: www.flir.com/rsx-f

Western Digital Corporation recently announced the first WD-branded SATA client SSDs, the WD Blue® and WD Green® solid state drives (SSDs). The new additions are in sync and complement the company’s industry leading family of hard drives for PCs and workstations, providing a full portfolio of WD storage devices for virtually any application.

The SSDs are a definitive solution for building DIY PCs, extending the life of current PCs and upgrading the present storage. The WD Blue and WD Green SSDs also have the capability to boast near-maximum speed of SATA drives, among the best-in-class endurance and MTTF and WD Functional Integrity Testing (F.I.T.) Lab certification, resulting in quick boot times and increased program responsiveness.

Consumers will greatly benefit from the combination of reliable storage coupled with an industry-leading
1.75M hours MTTF. This is accompanied with reduced power and less heat when compared to HDDs. Both drives include free, downloadable, WD SSD Dashboard software, which allows continuous performance and capacity monitoring. The new SSD offering is apt for consumers who are looking for instant-on responsiveness, durability, low power consumption, and ultra-thin, ultramobile form factors.

Available in capacities ranging from 120 GB to 1 TB, collectively, these drives come in both 2.5-inch/7mm case or M.2 2280 form factors.

Khwaja Saifuddin, Senior Sales Director – South Asia, Middle East and Africa, Western Digital said, “We are proud to introduce the first WD branded SATA client SSDs to deliver competitive performance, leading-edge reliability and capacity benefits to our customers. They are designed to drive SSD adoption in mainstream computing platforms for both corporate and end consumers. We believe the newly introduced WD Blue and WD Green Solid State Drives will perfectly answer our customers significant demand for a flash based storage option.”

**TDSi’s New GARDiS Range Grabs Visitor Attention at Expoprotection in Paris**

Visitors from across Europe and Africa show keen interest in the latest security solutions

Integrated security manufacturer TDSi’s new range of GARDiS software was the star attraction on the company’s stand at Expoprotection 2016 in Paris this month. TDSi’s appearance at the show drew large crowds from across France and Europe, as well further afield, with visitors from countries including Morocco, Tunisia, Algeria, Monaco, Ivory Coast and Hungary.

TDSi’s International Business Development Manager, Mica Negrilic, who led the team on the stand at the event commented, “Expoprotection was an exciting event again this year, both for visitors and also for us exhibitors! All three days at the event saw our team busy with visitors and we were particularly delighted that GARDiS was so well received. The solution is a major move towards completely online hosted integrated security systems and responds to evolving market demands.”

Mica continued, “Being web-based, the GARDiS range offers the greatest flexibility, but also the highest levels of security. It features full ONVIF Profile A and C compliance and is also highly compatible with a wide range of security systems from other suppliers – which makes it perfectly future-proof and an ideal investment for any security operator.”

Expoprotection follows a busy year for TDSi, with other highly successful appearances at IFSEC Southeast Asia in Kuala Lumpur and IFSEC International in London – both of which, enjoyed significantly increased stand visitor numbers.

With many big names from the French and wider security markets appearing at the show, Expoprotection is a particularly important event for the TDSi French office, which is based in Noisy-le-Grand near Paris.

Mica added, “It’s fair to say the best providers to the French security market appear at Expoprotection and it is the perfect opportunity to investigate the latest technology and trends. For our team, it was also an ideal chance to meet with our partners and customers face to face. This is vital when it comes to fully understanding what the market wants and is a key driver in our ongoing technology development.”

Along with GARDiS, TDSi also showcased its wide range of fully integrated security systems – including its powerful MICROgarde controllers and highly flexible but secure DIGIgarde PLUS readers (which offer PIN, card and fingerprint identification all in the same unit). Additionally, TDSi also spoke to visitors about its enterprise solutions, and the powerful integration possibilities between its own software products – including EXgarde security management and VUgarde CCTV VMS.

Mica concluded, “Expoprotection is a great barometer of not only the French, but also the wider European and North African security markets, so the busy event demonstrated just how much interest there is from this important sector. We very much look forward to seeing our partners and customers again next year.”
Moxa Launches 28-Port Ethernet Switch to Enhance Flexibility and Security in Industrial Environments

Moxa’s EDS-528E is a new 28-port Ethernet switch that was designed to address the current Industrial Internet of Things (IIoT) trend, which is seeing more and more devices connected to networks. The EDS-528E has satisfied the requirements of the IEC 62443-4-2 standard, ensuring that it can be deployed securely on industrial networks. The EDS-528E also carries various industrial-grade certifications, such as EN 50121-4 and IEC 61850-3, making it ideally suited for industrial solar, rail wayside, and factory automation industries, as well as intelligent transportation.

Flexible switch for IIoT network infrastructures

The EDS-528E has various built-in connection ports, including 4 Gigabit combo ports with RJ45 and SFP slots, and 24 copper ports allowing greater flexibility for IIoT networks and applications. The EDS-528E’s compact design makes it ideally suited
for installations where there are space restrictions. In addition, the compact DIN-rail form factor, high port density, and intelligent management capabilities make the EDS-528E a very cost-effective switch to help unlock the total value of IIoT network infrastructures.

Enhanced security to reduce risks on IIoT networks

EDS-528E supports Moxa’s latest firmware Turbo Pack 3. Complying with IEC 62443-4-2 cyber security standards, Turbo Pack 3 provides enhanced networking capability. With Turbo Pack 3 firmware, users can now visualize the status of their network and devices, and thus can rapidly respond to any unauthorized intrusion and cyber-attacks, greatly improving the network integrity and reliability.

EDS-528E highlights

- 4 Gigabit plus 24 Fast Ethernet ports for copper and fiber.
- TACACS+, SNMPv3, IEEE 802.1x, HTTPS, and SSH to enhance network security.
- Supports MXStudio for easy, visualized industrial network management.
- Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches), RSTP/STP, and MSTP for network redundancy.
- V-ON™ ensures millisecond-level multicast data and video network recovery.
- EtherNet/IP, PROFINET, and Modbus/TCP protocols supported for device management and monitoring.

Added stability for reliable network infrastructures

Similar to other models in the EDS E Series, the EDS-528E was designed for maximum reliability and minimum downtime. The industrial-design of the EDS-528E provides strong protection against high-voltage electrical transients, severe shock and vibration resistance, and can operate reliably in temperatures ranging from -40 to 75°C. These features significantly contributed to the EDS-528E achieving the EN 50121-4 and IEC 61850-3 certifications. The EDS-528E also features Turbo Ring and Turbo Chain redundancy with trunking functionalities for high bandwidth communications, which support recovery times under 20 ms for networks with up to 250 switches. In addition, RSTP/STP and MSTP redundancy provide compatibility with enterprise and other third-party network infrastructures. The industrial-grade design of the EDS-528E makes it very well suited for deployment in the tough, industrial environment conditions.

Axis Introduces Durable Fixed Domes

Including stainless models, exceptional light sensitivity and wide dynamic range

Axis Communications has updated its AXIS Q35 Network Camera Series with models based on the latest image sensor technology and enhanced processing including Lightfinder technology, resulting in exceptional light sensitivity and Wide Dynamic Range – Forensic Capture. Moreover, two new models with marine-grade, electropolished and coated stainless steel casing and nylon transparent dome are offered to withstand the corrosive effect of seawater and chemicals.

“Our great AXIS Q35 Series is designed for critical video surveillance installations, and with the new and updated models, we are significantly strengthening its light sensitivity and WDR capabilities” says Petra Bennermark, Global Product Manager, Axis Communications. “The new stainless steel cameras expand our offering for healthcare, industrial facilities such as food or pharmaceutical production, and installations with exposure to seawater. And all models offer Axis’ Zipstream technology, of course – for optimal compression with preserved image quality.”

AXIS Q3505-V/VE-SVE Mk II models provide HDTV 1080p video at 30 fps with WDR, and 1080p at up to 60 fps or 720p at up to 120 fps with WDR disabled. They are available with wide
or telephoto lens. AXIS Q3504-V/-VE cameras provide HDTV 720p at 30 fps with WDR, and up to 120 fps with WDR disabled. All new AXIS Q35 models offer remote zoom and focus capabilities as well as P-Iris control ensuring optimal depth of field, resolution, image contrast and clarity.

The new AXIS Q3504-V and Q3504-VE cameras, the updated AXIS Q3505-V Mk II and Q3505-VE Mk II as well as the new stainless AXIS Q3505-SVE Mk II models (also named Mk II since they have the same camera performance inside) are available through Axis’ distribution channels.

Tyco Security Products introduces the C•CURE Go Reader from Software House, which brings access control capabilities into more environments through the ease of a mobile application.

Using an Android tablet or phone, the C•CURE Go Reader pairs with a multi-technology read head to mimic a full-fledged iSTAR controller door, turning it into a mobile card reader or virtual door, complete with schedules, clearances and holidays. This can be used at locations where an actual access-controlled doorway may not be possible, such as construction and event sites and other remote or temporary locations.

C•CURE Go Reader works with multiple card technologies, including Proximity, MIFARE CSN, MIFARE sector, iCLASS sector and others.

Operating as a ‘door’ within the C•CURE 9000 security and event management platform, users can validate cards either to the C•CURE 9000 server while online, or in offline mode using a cached database. The C•CURE Go Reader can also be used in emergencies to handle mustering duties at temporary sites or for more everyday activities, such as performing roll calls for buses and field trips. All online and offline activity is logged within C•CURE 9000.

“There are many scenarios where users want to control access, but don’t have the capability to install a traditional reader. With the flexibility of the C•CURE Go Reader, an Android smartphone or tablet now can become that door, heightening the level of security provided and bringing a wide range of activities to an out-of-the-way site,” said Rick Focke, Senior Product Manager, Software House, Tyco Security Products.

Software House security and event management systems are part of the Security Products business unit of Tyco, the world’s largest pure-play fire protection and security company. Software House’s innovative C•CURE 9000 software portfolio combines with a suite of reliable controllers to provide the most powerful security and event management in the industry. Add an unsurpassed integration platform that allows customers to integrate seamlessly with critical business applications, and it’s easy to see why Software House solutions are ideal for security-critical applications.
Cayuga R9: Turning the Flood of Data into a Flow of Information

With SeeTec Analytics Server 3D, a new server-based image analysis module for SeeTec Cayuga is now available for securing buildings and outdoor areas. It automatically detects events such as trespassing or climbing over a fence on the basis of different analysis scenarios, thereby reliably eliminating interferences such as shadows or weather conditions. Thanks to the full integration in SeeTec Cayuga, all camera models available there can also be used for video analysis. Since the analytics is operated directly on the video management server and integrated using shared memory, system resources are efficiently used and network bandwidth is saved. Especially for installers and integrators, SeeTec Analytics Server 3D offers a number of additional advantages: While many other video analytics systems require a large number of parameters to be defined or adapted for the correct detection of objects and events, the SeeTec solution can be deployed easily and quickly by just one person using auto calibration. In addition, the supplied graphical planning tool helps to determine the optimal camera positions and viewing angles. In addition to the server-based video analysis, SeeTec Cayuga R9 has also expanded its support for third-party products. Via the SeeTec Analytics Interface, two additional video analysis products for use on Axis cameras can now be connected to SeeTec Cayuga: Digital Barriers SafeZone-edge and Axis Perimeter Defender.

One further feature SeeTec Cayuga R9 provides for the increasing size of video projects – especially for systems that are spread over multiple sites or across a branch network. Here access to archive recordings can often only take place via narrow-band networks, for example via DSL connections. However, the image data is mostly stored on the server in high quality and resolution (e.g., Full HD or 4k), which is why a smooth playback of those video recordings is technically not possible in these cases. In SeeTec Cayuga R9, the Transcoded Playback can help: It allows the definition and transmission of video streams with reduced resolution, quality and frame rate according to the available bandwidth. This allows uninterrupted playback even in narrow-band networks, with the recorded picture material always being preserved in its original quality. Especially to improve the usability with high-resolution monitors the user interface has been thoroughly revised in SeeTec Cayuga R9. For example, larger fonts provide better readability and redesigned icons allow a more intuitive system operation. The color scheme has also been made clearer for screens with a low contrast ratio. The SeeTec Mobile Client for Android-based tablets and smartphones has been redesigned in contemporary material design, too. For privacy protection, SeeTec Cayuga R9 offers a new feature as well: Stream on Demand can be used to de-
activate video streams at the touch of a button, for example, to disable video surveillance in a conference area for the duration of a meeting. The handling of the image data on the SeeTec Cayuga server is completely interrupted, so they are neither provided for live view nor recorded in the archive. However, the network connection to the camera remains — so a quick reactivation of the monitoring is possible at any time.

Last but not least SeeTec Cayuga R9 provides new integrations of cameras and devices such as a Smart Driver for Bosch cameras.

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**PPSS**

**Latest Bullet Resistant Vest also Protects From Full Contact Shots and TASER**

Official test reports now confirm PPSS Group’s new NIJ Std 0101.06 Level IIIA bullet resistant vests also offer protection from full contact shots, which form a fundamental part of the infamously stringent German Police as well as FBI Body Armor Test Protocol.

Being clearly delighted Robert Kaiser, CEO of PPSS Group said, “Launching our new NIJ Std 0101.06 Level IIIA bullet resistant vest today is a truly special event in itself, but knowing our body armour also protect from full contact shots means we have once again significantly improved the personal safety of those who serve and protect our countries and citizens.”

“Too many law enforcement officers are being shot by their own firearms from extremely close range. Understanding this particular risk was crucial during the development phase of our new high performance body armour.”

PPSS Group’s latest body armour also offers consistent protection from Tokarev Ball 7.62x25mm and Makarov 9x18mm, handgun rounds primarily used in the Russian Federation and Eastern European countries.

This advanced design has been successfully tested against a general issue TASER® device, which was recently conducted in a realistic operational setting – with no effect on the wearer. The wearer was not incapacitated by the Taser discharge nor suffered any effects of the device.

The hybrid ballistic package has been created using a highly advanced new ultra-resilient European ballistic material, an integrated solution that combines high ballistic performance with a high level of comfort, improved flexibility, and substantially reduced Back Face Deformation (BFD).

Tony Welsh, COO of PPSS Group highlights the firm’s commitment, “We really are devoted to our continuous research and development. Our ambitious goal was to develop one of the best and operationally most sensible bullet resistant vests, and it is now clear that we have successfully reached our objective.

“There is no question about it – this standard is without any doubt the single most important ballistic resistance standard in the world. The latest is also the most stringent and most important version of it.”

A NIJ Std 0101.06 tested and certified body armour ultimately means increased protection for the wearer. It means reassurance and peace of mind knowing that a body armour is based on the very latest design and manufacturing capabilities and technologies.
Senstar Introduces New Version of FiberPatrol-ZR

**Longer detection capability provides customers with more protection options**

Senstar has announced a new version of FiberPatrol-ZR, its zone-reporting fiber optic fence-mounted intrusion detection system. The new version doubles the detection capabilities of the original system to 5 km (3.1 mi) per processor.

“This new version of FiberPatrol-ZR provides additional perimeter length options for customers looking to secure their sites with proven fiber optic sensor technology,” said Product Manager Stewart Dewar, “It combines the cost-effectiveness of a zone-reporting system with most of the performance capabilities and features of a more expensive long-range fiber optic system.”

FiberPatrol-ZR shares many features with Senstar’s FiberPatrol-PR system optimized for long perimeters, including dual sensing channels enabling a cut immune configuration. The system has a reduced nuisance alarm rate because it can differentiate between disturbances caused by real intrusions and environmental disturbances such as wind and rain. FiberPatrol-ZR can detect and accurately locate intrusions to the zone even when there are multiple simultaneous intrusions or in the presence of spatially-distributed environmental noise that would mask the detection capability of other long-range fiber optic sensors.

Compared to hardware-zone systems that require zone start/end modules and/or breakout boxes to define zone boundaries, FiberPatrol-ZR uses optical time-domain reflectometry to accurately determine the location of intrusions and then creates virtual zones in software. The result is a centralized sensor unit with only a continuous run of fiber optic cable on the fence, dramatically reducing installation cost and time.

Senstar has been manufacturing, selling and supporting the world’s largest portfolio of perimeter intrusion detection sensor technologies for 35 years and is also a leading provider of personal duress solutions. Senstar products can be found around the world in more than 80 countries, in tens of thousands of sites including borders, ports, military and government, oil and gas, correctional, and other critical sites.

Artesyn Launches 700 Watt Power Output Half Brick DC-DC Converter Module with 28V Output

Artesyn Embedded Technologies has launched a new 700 watt half brick DC-DC converter module, the ADH700 series. The first model available offers a 28V nominal output and is designed to support the popular use of LDMOS technology used in high power wireless base station (BTS) deployments. LDMOS stands for laterally diffused metal oxide semiconductor and is a dominant device technology used in high-power RF power amplifier (PA) applications for cellular infrastructure.

The ADH700 series nominal 28V model can deliver up to 28A output current and offers a wide trim range of 14V to 33V. Housed in the industry standard half-brick format (2.4x2.3 inches or 61.0x57.9 mm) the ADH700 series is just 0.5 inch or 12.7 mm high. The DC-DC converter series offers greater than 95 percent typical efficiency and a wide input range of 36 to 65V. An aluminum baseplate structure gives ADH700 series modules excellent thermal performance. The 28V model can operate between minus 40 and plus 85 degrees Celsius ambient temperature, and can continue to operate at full power up to 100 degrees Celsius baseplate temperature – all without air cooling. The conversion technology employs 280 kHz fixed-
Pelco by Schneider Electric’s VideoXpert Video Management System (VMS) has been selected as one of Security Sales & Integration’s 2016 Top 30 Technology Innovations. The annual award highlights solutions that provide resellers with features that build business opportunities and increase revenue streams.

The VideoXpert platform was chosen for its technology innovation, citing the platform’s ability to streamline deployments for systems integrators. VideoXpert takes intuitive design and easy-to-navigate functionality and effortlessly displays critical intelligence and information together, allowing security professionals to make quick, effective decisions in the event of an emergency. VideoXpert integrates with a number of systems, including video analytics and surveillance, license plate recognition, point of sale, and event/ alarm management. The platform is ideal for large enterprise organizations, such as airports and seaports, oil and gas production facilities, casinos and gaming, and Safe City applications.

For more than a decade, Security Sales & Integration’s technology editors have handpicked the industry’s most unique compilation of products and solutions aimed at delivering the most value to integrators, dealers and end users. These annual selections represent some of the most interesting and intriguing market offerings to support installing and monitoring systems providers’ quest for success.

“We’ve seen the rise in market demand for a platform that can achieve greater situational awareness by integrating multiple systems into a single, user-friendly system, and VideoXpert delivers this rich capability,” said Jason Spielfogel, Director of Product Management, Pelco by Schneider Electric, “The award from SSI reinforces the value that VideoXpert delivers to systems integrators, allowing resellers to specify the best solution for enterprise organizations to protect valuable assets, employees and customers.”
360 Vision Technology Show
Cameras for Every Application at Intersec 2017

360 Vision Technology, the leading British CCTV design & manufacturing company, will be displaying a range of cameras suitable for every application, at Intersec 2017.

Designed to deliver advanced situational awareness, identification and alert to activity within any surveillance application, 360 Vision will be demonstrating their range of high-performance imaging cameras.

Ashley Wyton, International Sales Manager at 360 Vision Technology, says: “With the ability to automatically detect and continually track targets, 360 Vision offers the very best in British camera manufacturer knowledge, experience and build quality, to provide support for any Middle East security specific applications. Whether the conditions are bright, zero light, sandstorm, or long distance, our range of integrated Radar, Thermal and HD imaging cameras combine rugged build quality, with proven reliability in the field, to provide the ultimate in surveillance camera performance, backed by first-class manufacturer support.”

Aiphone JP Video Intercom Systems Deployed at French Job Centres

Aiphone has been entrusted by the French government to provide video intercom systems for 450 Pôle emploi job centres.

Pôle emploi is a French governmental agency which registers unemployed people, provides social benefits and helps them find jobs. It also offers opportunities for companies to hire staff. The agency was created in 2009 as a result of a government pledge to reduce the unemployment rate.

Aiphone JP video intercom systems have been installed at each of the 450 Pôle emploi offices located throughout France in order to control access to the job centres, as meetings with those seeking work are only conducted in the afternoon by appointment.

Each of the Pôle emploi offices are being equipped with a JP video intercom solution comprising two or three 7” touchscreen room stations, but there is the option if required, to expand this number to eight.

The JP system comes complete with a built-in 170 degree wide angle camera which when combined with digital pan, tilt and zoom (PTZ) functionality, eliminates blind spots that ensure Pôle emploi staff can always see who wants to enter their offices.

Antoine Pelloux, Marketing Manager for Aiphone in France, said: “The video capabilities of the JP system, as well as the built-in magnetic induction loop for the hard of hearing, were key factors in us winning this prestigious contract. Most importantly, the JP system complies with the France’s Access-
Wavestore, the British manufacturer of video management software (VMS), has launched v6.4 of its VMS featuring a host of enhancements which allows systems integrators and end-users to get even more from their new and existing Wavestore solutions.

Unauthorized access to security systems has been a hot topic in the industry recently. In this latest release, Wavestore adds SSL and TLS protocol e-mail transmission to further protect against potential interception of alerts transmitted via e-mail to an existing long list of pre-configured security measures, which include up to 4096 bit video encryption, stringent password policy enforcement, authorisation of connected devices, privilege separation and robust protection against ‘man-in-the-middle’ attacks.

Wavestore operates a pro-active independent vulnerability assessment programme and is committed to the continued development of security measures to protect users of its VMS.

The Security Buying Group’s Aimetis Exchange Offer Upgrades Any Live VMS System to Aimetis with no Channel License Fees

The Security Buying Group is pleased to announce its exclusive ‘Aimetis Exchange’ offer

Installers are given the opportunity to replace an existing video management software based CCTV system with a current Aimetis Symphony™ solution, without paying channel license fees.

Paul Scott, Technical Director of Security Buying Group, explained: “The exchange offer allows us to replace any current VMS CCTV system, larger than fifty channels, with an Aimetis Symphony™ solution. Our pricing means integrators, in many cases, can reduce their annual VMS fees by switching to Aimetis. We simply ask customers to commit to annual maintenance and support.”

This offer means sites can benefit from the outstanding VMS functionality Aimetis Symphony™ offers, including taking advantage of its analytics capability. The Security Buying Group supports customers with system design, specification, training and deployment as well as helping to manage the transition to the Aimetis platform.

Paul added: “To maintain the high standard of the Aimetis products, including their installation, installers are requested to attend certification training. In return, they receive free licenses for use on further projects. The cameras, servers and storage devices being reused need to be on our current, extensive integration list, which can be checked very quickly, before we proceed.”

Oil, Gas and Industry Meeting with Integrators and Security Directors at TB Forum 2017

New features at TB Forum powered by Intersec 2017 include Oil & Gas

Responsibility Act in terms of the field of view of the camera built into the door station which also offers audio and pictogram guidance. Ease of use was also a key requirement and the touch screen room stations with large button and icons for quick, intuitive navigation and control, have therefore provided an ideal solution for this project.”
and Industry Clusters, bringing thousands of safety and security professionals in touch with integrators, end-users and key decision makers in this field.

In these sectors vendors from overseas gain the biggest market-share and have leading positions.

Security Directors from PJSC ‘RusHydro,’ PJSC ‘Gazprom Neft,’ PJSC ‘NC Rosneft,’ PJSC ‘Gazprom,’ PJSC ‘Transneft’ confirm that procurement of the security systems in large volumes is still relevant to them and the budgets are available; total $164 million will be spent for security and safety at Oil & Gas in 2016.

Alexey Ostrov, OJSC Severneftegazprom: “Servers and workstations have no Russian analogues, and imported surveillance systems are more reliable and more advanced technically in comparison with domestic counterparts. We also purchase Access Control products & solutions from foreign vendors, since the objects have been designed on the systems of such kind. Software, however, makes an exception, in this segment, we prefer local manufacturers. In the security and alarm systems sector priority goes to the domestic vendors.”

IDIS to Celebrate Twenty Years of Innovation at Intersec 2017

Korea’s largest surveillance manufacturer to demonstrate why the company has been at the vanguard of surveillance innovation for the last two decades by unveiling powerful enterprise-level solutions in Dubai.

IDIS, a leading global surveillance manufacturer, announces that it will kick off its twentieth anniversary celebrations during Intersec 2017 at the Dubai International Convention and Exhibition Centre on 22-24 January on its stand S1-F26.

To commemorate two decades of innovation, IDIS will hold a press briefing on its stand on Monday 23rd January at 16:00 when the company will honour customers and partners for making the last twenty years such a phenomenal success. At the same time, the IDIS team will demonstrate exactly why the company has been at the forefront of surveillance innovation over the last two decades by unveiling a number of new innovative solutions including:

- **IDIS Solution Suite;** an open architecture and enterprise-level video management software (VMS), that offers a highly responsive and cost-effective modular design and that comes with free software and firmware updates.
- A **64-channel network video recorder (NVR), the DR-8364D;** featuring full HD real-time recording, RAID 1/5/10, dual power, total throughput of 900Mbps and failover redundancy.
- **IDIS ANPR;** that features true plug-and-play technology to deliver groundbreaking accuracy, a true multi-lane field of view, and superior image quality combined with simple and fast deployment.
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