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International

Publisher's Comment

IFSEC – a very special edition

Voice of the Security Technology Industry

**Securing temporary events with
affordable agility of cloud Services**

Security Technology Market

**Healthy growth rate for
surveillance market to 2022**

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UTC rejects Honeywell offer

Product News

World's first NFC enabled lock

The Interview

**Per Björkdahl, Chairman of
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ISSN-1651-3800 published by **armedia**

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- News releases can be sent to intnews@securityworldhotel.com

Subscriptions

Marika Thelenius

Rate for four issues is Euro 49

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Sörmlands Printing Solutions AB, Sweden, 2016



Lennart Alexandrie, Publisher

IFSEC 2016 – a very special edition

This year's IFSEC will be very special for more than one reason. The event will be held on the 21st to the 23rd of June. It ends the very same date as the referendum on whether Britain should remain in the European Union or not. And what if the answer is no? How will it affect security in the EU and in the UK? And what will the effects be for the security industry in the UK? It will be a very exciting last day of the show – for sure.

Other issues, which will have even more impact on this year's edition of IFSEC, are the threats of terrorism and the troubled refugee situation in Europe.

There are no doubts that security has become a major and increasing international concern since 9/11 2001. At that time – and for years to come – the USA and its allies in the Iraq war, the UK, were the main targets for Al-Qaida. Now it is ISIL related terror actions that form the most serious threat. Europe in general has become the target and France – now also Belgium – appear to be targeted in particular. But everyone knows that terrorism can hit any country, any city, anywhere. And there are no reasons to believe that the threat is over, it is rather the other way around. Many terror experts claim that the more ISIL loses on the battlefield in the Middle East, the more terror actions will be taken in big European cities. If so, then it has just started.

Of course we don't know when or where the next terror attack will be executed. But we do know that governments and also certain multi international companies have to increase their investments in security. How will this be reflected at IFSEC?

On November 1st 2015 I was invited to speak on the subject of "Emerging Trends" at a conference, held in conjunction with the security exhibition CPSE in Shenzhen. My choice of angle was to avoid talking about security technology and instead to focus on two factors in society that will be boosting the security industry during 2016 and long after – namely terrorism and the refugee situation. More than anything else – these factors will have a crucial impact on demand for security solutions in Europe. Still, I

was the only one to mention it. Most speakers talked about the IP revolution, cloud solutions, IoT and other technical achievements as the important drivers for the market. It was rather strange to be the exclusive delegate talking about such general security challenges within society. And I remember thinking, am I exaggerating?

Some weeks later the mass killing in Paris took place. Now Brussels has also been hit by deadly by Jihad-terrorists. On top of all this the refugee situation has become increasingly worse as well. Closed borders, panic and desperation among the refugees, as well as among politicians, who seem to have no real plan as to how to manage the situation. And of course, the security problems that have come with this situation are far from really under control. At the conference I knew my speech was relevant, but I was not really aware of how right I was.

However the new technology advancements do have a substantial impact on the growth in the industry. The cost efficiency of today's security technology is enormous, compared with just a few years ago. The shift from analogue to digital technology, and the trends toward more integration and intelligent systems are all playing an important role for the growth, but it is still the basic reasons for why we need protection that will drive the demand for security products and services. Now, we are just in the beginning of the Internet-of-Things era, where smart buildings and even smart cities are becoming realities. Easy integration and scalability are suppliers' keys to meeting future increasing demands for security solutions. New technology, based on open network platforms, creates possibilities to design cost effective customised security solutions – more than ever before. That is for sure and at IFSEC it will be proven once and for all.

What is less sure is how the terror threat level will change or how the refugee situation in Europe will develop by the time IFSEC opens its gates. Neither will we know whether the Brexit (Britain exit) is a fact until the gates are closed on the 23rd of June.

Against this background the 2016 edition of IFSEC is a very special one.

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Per Björkdahl, Onvif: "VMS manufacturers are starting to look at access control"

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Success for Sicur in Madrid

This year's first big security event in Europe, Sicur in Madrid attracted 42,294 visitors.

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PREVIEW

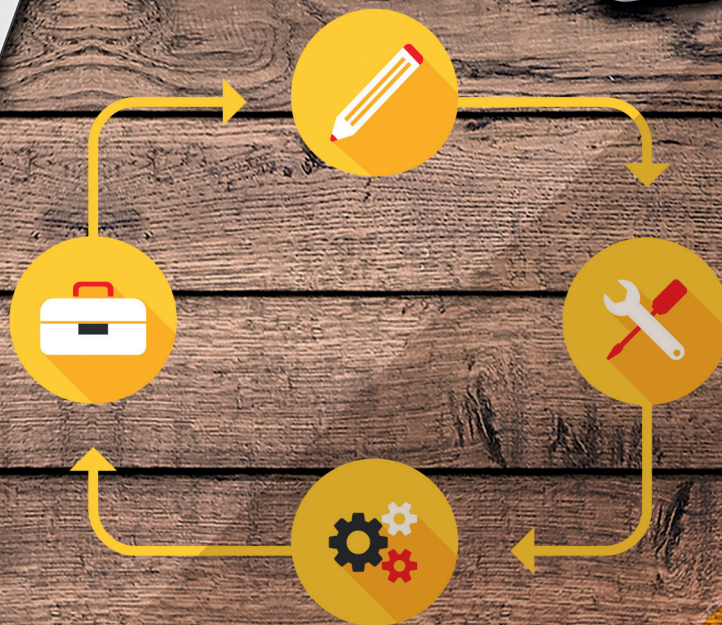
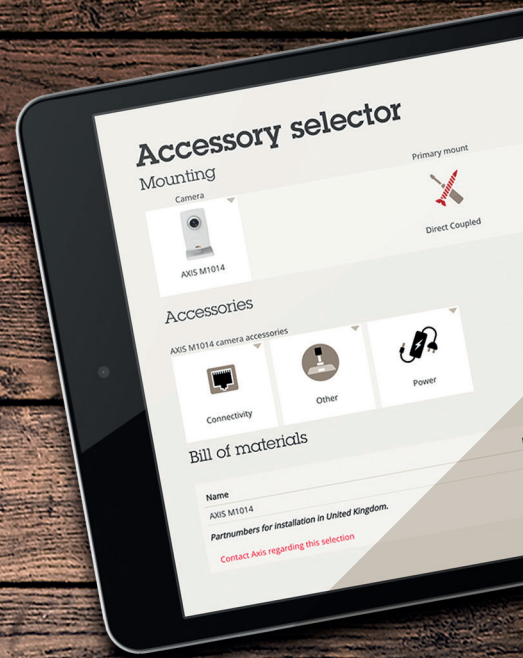


The Smart Zone – a new area.

At IFSEC International in London, taking place at Excel from 21–23 June, the development toward smart buildings and smart cities will be in focus through the introduction of the Smart Zone. An enhanced Physical Perimeter Security Zone is another highlight at the show.

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Securing temporary events with affordable agility of cloud Services

Parades, festivals, concerts, and sports events enliven communities and stimulate economies. They also draw hundreds-or-thousands of people to specific areas or districts, for a limited duration of time. For the host cities and organisers, ensuring a successful event requires a lot of planning, and one crucial aspect of that is security, writes Nick D'hoedt, Genetec, in this article.

By Nick D'hoedt, Regional Sales Director, Genetec

While city law enforcement and event hosts typically have their own security infrastructure in place, expanded coverage is often required to safeguard crowds, manage flow of pedestrian and vehicle traffic, and identify and quickly diffuse possible threats. On a day-to-day basis, cities also face other unplanned events such as unanticipated political gatherings, crime spikes, or emergency road closures which also require added surveillance of an area within a moment's notice.

For these reasons, temporary security applications for short-term projects are increasingly in demand by cities around the world. Understandably, law enforcement and event organisers have a hard time justifying additional investments in permanent security infrastructure for events that last a few days or weeks. Instead, they are seeking short-term security solutions that can be easily deployed and quickly removed. They are also looking for flexible solutions that will accommodate event areas with limited power or network connectivity, and buying models with shorter usage terms for both software and other equipment.

Helps cities expand surveillance coverage

Requirements for more flexible and temporary ownership of security systems have more cities and organisations considering cloud-based Security-as-a-Service (SaaS) solutions. It allows organizations to deploy surveillance systems for a cost-effective monthly fee, avoiding the need for approvals or sourcing the means for lump-sum capital expenditures to procure more on-premises servers. Cloud services also eliminate the need to find additional rack space, and the

requirements to cool, power and maintain storage hardware, while freeing up valuable IT resources.

Greater flexibility

Specifically engineered and maintained in secure data centres, cloud solutions such as Video Surveillance-as-a-Service (VSaaS) and Federation-as-a-Service (FaaS) provide greater agility and flexibility in deploying video surveillance systems, in expanding storage or in managing multiple remote locations from one central command centre. With SaaS, temporary systems can be up and running in very little time, requiring fewer resources to deploy and dismantle at the end of the event.

For additional flexibility, cities that invest in open architecture cloud-based solutions are primed for better system design. With open SaaS solutions, cities can select the preferred video devices. This could include cameras with analytics on-board, or all-in-one police observation devices (PODS) offered by Genetec technology partner, Solidbot (Belgium). Solidbot is a mobile video surveillance unit, which comes with built-in power generation, cellular or wireless network connectivity, and device discovery and configuration tools for faster implementation of edge devices set up for added surveillance. Fully cloud-enabled video management software solutions can be activated for the duration of the event, or hardware can be purchased and re-used for numerous events. Easy, cloud based SaaS subscriptions allow cities to add the specific number of camera connections for the duration of the event.

Cities can also leverage existing security infrastructure and deploy hybrid models, adding new



The author of the article: Nick D'hoedt, Regional Sales Director for Scandinavia, Benelux and DAC, for Genetec.

cameras with cloud connections, or expanding storage for event-related needs while still keeping on premises servers for existing technologies and uses. Then FaaS can be used to bring multiple systems, whether cloud-based or on-premises, back to one central command centre without additional server or administration requirements.

Temporary security applications for short-term projects are increasingly in demand by cities around the world.

LAPD benefitted from FaaS

One of the most impressive examples of securing temporary events was demonstrated at the 2015 Special Olympics World Games (LA2015) held in Los Angeles, California. The Los Angeles Police Department (LAPD) needed to centralise the surveillance across multiple disparate systems from multiple event venues in Los Angeles and the nearby city of Long Beach, California.

The LAPD leveraged the Federation-as-a-Service capability feature in Genetec Omnicast, the video surveillance system of Security Center. Since many venues were already running Security Center systems, the LAPD were

able to deploy the highly-scalable cloud service, to connect their command post across the multiple sites and monitor over 400 video cameras. Installation of the service was easy as no on-site servers were required, and the cloud-enabled Federation feature facilitated a seamless connection across all the distributed sites.

According to Commander Dennis Kato, LAPD Planning Group, Special Olympics World Games Organizing Committee, "Genetec Federation-as-a-Service allowed us to pull video from our partners which was crucial to the security of the games as it ensured our command post operated efficiently and smoothly."

Ensuring successful events and safer cities

As more planned and unplanned temporary events draw crowds of locals and visitors, cities will require more agility and cost-friendly solutions in expanding surveillance coverage. Cloud-based solutions such as VSaaS and FaaS, and new subscription-based buying models are attractive solutions for temporary event organisers who can now minimize hardware expenses, and affordably ramp up their security for the duration of the event. Ultimately, this added security helps cities keep potential threats at bay, and ensures the success of many anticipated, and sometimes unplanned, city events.



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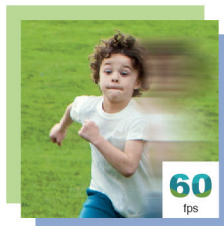


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Healthy growth rate for surveillance market to 2022

Hadapsar, India

According to a new market research report on the video surveillance market the global forecast by 2022 is expected to reach USD 71.28 Billion with an estimated CAGR of 16.56%.

Analysts from Marketsandmarkets have found that demand for the software and service element of the market is expected to lead the way and grow at the highest rate with cloud services and video surveillance as a service (VSaaS) playing an increasingly important role in the video surveillance system - including video analytics, video management software and the use of neural networks and algorithms for the biometric

component within a growing number of surveillance systems. The advancement in software technologies and networking services are predicted to lead the video surveillance market.

The market for the commercial sector is expected to grow at the highest CAGR between 2016 and 2022. The high demand for security systems in large and small retail businesses is increasing to reduce robbery and inventory loss. In the commercial sector, financial institutions and banks highly recommend video surveillance systems to provide security to the buildings, maintain cash management, and monitor customers

and staff activities. This enhances security parameters and drives the surveillance system market for the commercial sector.

Geographically, the video surveillance market in the APAC region is expected to grow at the highest rate over the period covered by the report. The reason for this growth, according to researchers, is the adoption of new technologies (cloud services and other analytics technologies) and security systems to protect the region's economy and infrastructure through criminal activities and terror attacks. Thus, a reduction in IP cameras prices and the presence of big players are the factors which

should drive the video surveillance system market in this region.

The key players in the ecosystem of the video surveillance market profiled in this report are Axis Communications AB (Sweden), Bosch Security Systems (U.S.), Zhejiang Dahua Technology Co., Ltd. (China), Hangzhou Hikvision Digital Technology Co., Ltd. (China), FLIR Systems Inc. (U.S.), Honeywell Security Group (U.S.), Avigilon Corporation (Canada), Pelco by Schneider Electric (U.S.), Panasonic System Networks Co., Ltd. (Japan), Samsung Techwin Co., Ltd. (South Korea), Nice Systems Limited (Israel), and Infinova Corporation (U.S.).

Opportunities & challenges for EMEA access control market

Engelwood, Co (USA)

The biggest changes in the latest updated forecast from IHS for the EMEA access control market came from France and Russia. France's CAGR forecast between 2015 and 2019 rose from 3.9% to 5.0%, while Russia's CAGR during the same period fell from 2.6% to 0.3%.

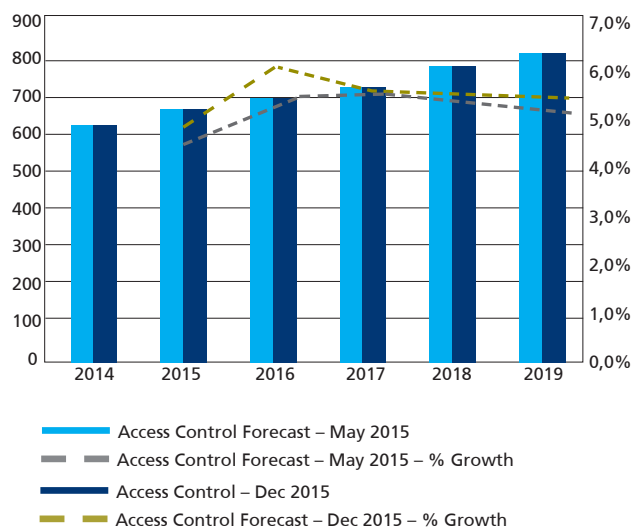
IHS Technology, analysts have recently issued revised forecasts for the EMEA access control market which have uncovered both new opportunities and challenges for market players. In the latest IHS country-level analysis for Europe, Middle East and Africa (EMEA), countries where the market for access control equipment is mature (i.e., France, United Kingdom and Germany) experienced only minor volatility in 2015. The combined compound annual growth rate (CAGR) forecast for 2014 through 2019 in Germany, Russia, United Kingdom and France shifted only slightly from 5.3% to 5.4%. The biggest changes in the forecast, however, came from

France and Russia.

According to Blake Kozak, Principal Analyst - Security & Building Technologies, IHS Technology, the French market will continue to be a target market for international suppliers through 2019, especially for electronic locks. The French market is also relatively untapped, compared to the U.K. and Germany. Due in large part to the recent terrorist attacks in France, and now in Belgium securing access to public places and accenting citizen safety in that country has become a priority. Development of governmental systems for access control is likely to receive backing from both the public and the parliament; however, any growth in the government sector will take time to develop, so short-term growth is not expected for government applications.

The Russian market for access control equipment continues to challenge international suppliers, primarily because of exchange-rate volatility: in fact, the market

United Kingdom, Germany, France and Russia – Changes to forecasts – May 2015 vs. December 2015



contracted by 5.3% in 2015 and will shrink by another 1.9% in 2016. Future opportunities for growth in Russia will hinge mostly on the state of national economic conditions. If oil prices

continue to fall, the exchange rate worsens, and competition from local and Chinese vendors rises, the Russian market will remain unfavourable for international suppliers.

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Drone market spawns anti-drone market

Hadapsar, India

A new report from Marketsandmarkets says that the anti-drone market could be worth 1.14 billion USD by 2022 and is expected to grow at a CAGR of 23.89% between 2017 and 2022. Ironically and perhaps not so surprisingly, it is the drone market itself that is spawning the growth of the anti-drone market, as it is cited by the analysts to be driven by factors such as increased security breach incidences by unidentified drones and increased

terrorism and illicit activities.

The electronics system market is expected to grow at the highest CAGR between 2017 and 2022. The huge investment from key players in electronics system-based anti-drone system, low cost of development, and easily understandable technology are the key drivers for this growth.

The military and defense segment is expected to hold the major share of market in 2016. The use of drones for border trespassing and

smuggling has increased, resulting into border security concern, and is a key driver for the anti-drone market in military and defense segment. The military and defense market is expected to grow between 2017 and 2022.

North America is expected to capture the largest market share in 2016. The APAC market is expected to grow at the highest CAGR in the anti-drone market. Many of the countries considered under APAC region are developing



It is the drone market itself that is spawning the growth of the anti-drone market.

countries, wherein, the number of commercial places such as public venues, critical infrastructures, and private properties is increasing and the public security at such commercial places is a key driver for the APAC market.

Thermal imaging market set for growth

Nottingham, UK

The global thermal imaging market is expected to grow at the CAGR of 9.2% during 2015–2022 and it is estimated to be \$11.2 billion by 2022, according to a new report published by market research company Brisk Insights, based in Nottingham, UK.

Analysts found that the global thermal imaging market is majorly driven by a rise in the refractory material industry and huge investment is expected to boost the market over the next few years. The major factor driving the thermal imaging market is the rising demand for thermal cameras in smartphone and commercial purposes.

Global adoption of thermal imaging in developed and emerging economies has created huge scope in the market. End user demand for such requirements as surveillance, surveys, radiology, threat detection, personal vision, fire fighting and so on is creating huge scope for the players in the global thermal imaging market.

In terms of regions it is predicted that the thermal imaging market by application will have the highest CAGR over the period 2015-2022 in the APAC region. The most common reason why companies are entering the market is the significant increase in adoption of thermal imaging cameras

and the growing and wide ranging variety of applications.

The end users, in this market, such as military and defense, commercial and so on are enabling the companies to explore the potential and as a result there is significant rise in revenues compared to those of the past. This kind of development according to the researchers will enable the global thermal imaging market to attract other major players to enter the market over the coming years. Emerging economies such as India, China, Japan and Korea are expected to contribute significantly in the next few years.

The report segments the thermal imaging market on the basis of

application, end user and geography. The major sector being the end user segment which includes military, defense and commercial.

On a regional scale, globally, North America dominates this market with high investments from manufacturers due to growing demand. However, North America is expected to contribute more than 55% market share followed by Europe and APAC. Both the regions are expected to create significant opportunities for the growth of the market during the forecasted years. Growing demand for thermal imaging products in emerging economies are the major drivers.

Managed security services market to grow to \$35 B

Hadapsar, India

The managed security services market is predicted to grow from USD 17.79 Billion in 2015 to USD 35.53 Billion by 2020, at an estimated CAGR of 14.8% from 2015 to 2020, according to a new report by Marketsandmarkets. The rise in cybercrime and threats, the rising need to meet compliance and data protection laws, security staffing and budgeting constraints, plus the increasing adoption of cloud services are expected to be the main drivers behind the increased traction of this market.

Managed security services

provide a balanced approach for maintaining compliance and ensuring a proactive security stance to an organisation's information and other security needs.

The financial sector will show the fastest growth rate over the forecasted period, as the operating environment of this sector has changed significantly in terms of technological advancements and workflow processes in recent times. There has been continuous technological revolution in banks and financial institutions in the form of ATMs, core banking,

e-banking, and mobile banking. As a result this sector of industry is facing unique challenges of increasing information security threats, and growing compliance requirements. Managed security services help the financial sector with service security solutions and technologies such as firewalls, intrusion detection systems (IDSs), virtual private networks (VPNs), and vulnerability assessment tools managed and monitored by skilled security professionals. Hence, the bank and other financial institutions are investing at a good rate in

security services to maintain their competence.

In terms of geography, North America is expected to have the largest market size in the managed security services market mainly due to high spending on IT security with increase in advancements in technologies, such as cloud computing, big data, mobility services, and growing apps stores across the U.S. and Canada. However, it is the Asia-Pacific region that analysts cite as likely to grow with the highest CAGR from 2015 to 2020.

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Hikvision's Third-Generation Turbo HD brings 4K Video to Analog Systems



Now with higher video performance, increased compression efficiency, longer transmission distances and Power over Coax technology while retaining seamless compatibility with existing analog and network IP cameras from most manufacturers.

Analog CCTV users can now enjoy 5MP HDTVI and 4K video resolution while safeguarding their investment with existing cabling infrastructure. Hikvision is launching its third-generation analog HD solution. Turbo HD 3.0 not only ensures higher video performance with up to 5MP HDTVI input and 4K video output but also supports latency-free 1080p HD video up to 800m and HD720p transmission up to 1200m over coaxial cable.

1080p HD, 5MP HDTVI and 4K video performance

Turbo HD 3.0 retains the ease-of-use of an analog system while offering up to 5MP video and makes high-definition surveillance systems possible without replacing existing cabling or switching to IP cameras. Turbo HD 3.0 uses HDTVI technology, eliminating compatibility issues whenever you have to mix old technology with new products, and making installation simple and cost-effective.

H.264+ compression technology

Hikvision's high-calibre H.264+

compression technology improves encoding efficiency by up to 50% compared to standard H.264, dramatically reducing bitrates while maintaining high transmission quality without losing forensic details. With data costs a high priority for most users, Hikvision's H.264+ reduces memory demands in existing DVRs/NVRs and markedly reduces data storage costs.

Up to 1200m HD transmission via coaxial cable

Hikvision Turbo HD 3.0 technology guarantees up to 1200 meters of high-quality HD720p transmission and up to 800 meters of HD1080p video via coaxial cable, distances unattainable by HD-SDI or conventional analog solutions. The increased transmission distances mean that larger projects can be tackled while existing systems can be extended quickly and easily.

Easier installation with Power-over-Coax (PoC)

Hikvision's Power-over-Coax (PoC) feature radically simplifies installation, as one coaxial cable carries both the video signal and the power supply. This translates

to reduced installation time, which also translates to a reduction in both installation and material costs! In addition, the Turbo HD 3.0 analog solution supports UTC for remote set-up and configuration and enables control of the OSD menu and PTZ control via coaxial cable, enabling faster camera installation and easier management.

Extensive compatibility with the majority of products from other manufacturers

Hikvision offers a comprehensive range of 1080p and 720p cameras including bullet, turret, and dome types – including PTZ – for indoor and outdoor use. Of note is Hikvision's full range EXIR series with 2MP and 3MP resolution, which excels in superior image clarity in ultra-low light environment. Most feature advanced technologies such as digital noise reduction, ultra-low-light illumination, Smart infrared (IR), motorized varifocal lenses, IP66 rating, and vandal-proof housings. A 5MP fisheye model will be available in the coming Q2.

The Turbo HD 3.0 DVR

products are available in 1/1.5/2U sizes, supporting camera input with up to 5MP resolution. The units could fit in different applications from small to large scale with ONVIF-compliant IP cameras supported for necessary system expansion.

Hikvision's advanced, industry-leading manufacturing technologies also ensure that the flexible Turbo HD 3.0 solution offers seamless compatibility with the majority of products from other manufacturers.

About Hikvision

Hikvision is the world's leading supplier of video surveillance solutions. Featuring the industry's strongest R&D workforce, Hikvision uses its state-of-the-art manufacturing facilities to design and develop innovative CCTV and video surveillance products for any security need. For more information, please visit Hikvision's website at www.hikvision.com.

Video surveillance a star attraction at Hollywood hotel

Based in the epicenter of a thriving Los Angeles tourist attraction, the Sunset Plaza Hotel employs a robust video surveillance solution to secure a lively location with round-the-clock activity.



INTRODUCTION

Los Angeles' Sunset Strip is known worldwide for being the home of some of Hollywood's most famous entertainment venues. The nightclub Whisky A Go-Go once hosted Led Zeppelin and The Doors; the Comedy Store has showcased a diverse array of comics from Johnny Carson to Chris Rock. The Sunset Strip is renowned for its energetic nightlife – a place where the young and hopeful have been flocking to see and be seen for nearly a century.

Just down the boulevard from the Chateau Marmont lies a hotel that is lesser known than its legendary neighbor but just as focused on providing a classic and comfortable Hollywood experience for its guests. The Sunset Plaza Hotel, part of the Best Western Plus family of hotels, is located amidst the hustle and bustle of the Strip but offers a quaint European style reminiscent of an Italian villa. Some of the amenities it provides to its guests are less noticeable than the cozy suites and the heated swimming pool: the hotel is committed to using cutting edge video surveillance to the benefit of their guests and employees.

REQUIREMENT

High-Performing IP Surveillance That's Easy to Use When planning to upgrade their video surveillance system from analog to IP, the Sunset Plaza Hotel needed something that allowed for a lot of coverage in various environments around the premises, cameras that could supply highquality images, and an interface that was easy for employees to learn.

"We wanted something that we could use from an operational standpoint and from a safety standpoint," explained Brenda Elias, operations manager for the Sunset Plaza.

Constantin Paul Bunea, the

founder and CEO of Darkcad Tec, had been serving as systems integrator for the hotel for ten years. He knew it was time for the hotel to upgrade from analog to IP, and he knew that Hikvision was the brand that would meet their needs.

"I selected Hikvision cameras because the quality is very high, third party integration is easy, and the company provides excellent technical support." Mr. Bunea stated.

SOLUTION

Comprehensive Coverage, Comprehensive Benefits

Darkcad Tec installed over twenty 3 MP cameras from Hikvision throughout the hotel, covering interiors such as hallways, conference rooms, and meeting rooms, and exterior locations as well. The DS-2CD2232-I5 bullet offers digital WDR and a weatherproof rating of IP66, ideal for the outdoor swimming pool. The DS-2CD2332-I turret, with Hikvision's patented EXIR infrared technology, is being used in the parking garage, with image quality clear enough to make out license plates. A 3 MP fisheye camera, the DS-2CD6332FWD-I, allows for broad coverage near the main entrance. The DS-2CD2132F-I dome provides HD real-time video and has a vandal resistant rating of IK10, perfect for identifying visitors at hotel entrances. The hotel also plans to use the substream of these cameras for future access control integration.

Two DS-9632NI-I8 recorders round out the solution, providing an intuitive, user-friendly interface that makes footage easily retrievable.

"In some instances, we needed to address customer concerns by reviewing surveillance footage, so footage that was easy to retrieve was essential," commented Ms. Elias.

RESULTS

Superior Image Quality and Improved Efficiency Whether retrieving recorded footage or viewing what's happening in real time, the surveillance system is boosting the efficiency of the Sunset Plaza team from an operational standpoint.

In situations where live viewing is crucial, the cameras allow the hotel staff to easily keep tabs on the entire premises. Cameras positioned at building entrances give the staff more control over who comes and goes. The new surveillance cameras also offer a significant improvement in image quality compared to what was in use before. Staff communicating with each other about what they see on camera can now describe in detail what people are wearing, helping them assist their guests.

"Before we weren't able to clearly see what was happening," Ms. Elias noted, "but now the images are very good at night and during the day."

LOOKING TO THE FUTURE

Future additions to the video surveillance system at the Sunset Plaza will assist the hotel with public relations.

"We intend to use Value Series

PTZ cameras mounted to the exterior of the building to display live feeds of Sunset Boulevard on the hotel website," remarked Mr. Bunea.

The superior image quality from Hikvision cameras would give potential visitors a feel for the energy and excitement of the Sunset Strip, helping clinch their decision to book a room at the Sunset Plaza.

CONCLUSION

The diversity of settings within the hotel and need for a wide area of coverage called for a highperforming group of cameras at an affordable price, but the hotel's analog system wasn't up to par. Hikvision cameras not only boast excellent image quality, but have also given the hotel staff the eyes they need to survey the hotel grounds 24 hours a day. Hikvision DVRs make it easy to review footage as needed. The user-friendly cameras and recorders are easily networked with other devices, allowing for future upgrades to access control.

The Sunset Plaza's new video surveillance system helps ensure the safety of hotel guests and employees, contributing to a fabulous experience on the famous Sunset Strip.



Top video surveillance trends for 2016

2016 is likely to see the continuation of several long-term trends in the video surveillance market. They include the move from standard-definition (SD) analogue equipment to high-definition (HD) CCTV and network equipment, aggressive price competition, further consolidation of the supply base, and the increasing importance of China in the world market.

In this article, analysts from the research company IHS Technology, present their views on the different trends within the video surveillance market.

IHS is forecasting that the world market for video surveillance equipment will grow by over 7% in 2016. However, the total market is made up of many different products, end-user sectors, and geographic regions. Some markets will grow much faster than others. As regards products, the markets for HD CCTV cameras, and boxed appliance recorders will grow rapidly. As regards end-users, investment in city surveillance spending is likely to be fuelled by counter-terrorism initiatives. When it comes to consideration of different geographic regions, the role of exchange rates

should not be underestimated. Large currency movements in 2015 made business conditions tough in a number of regions, such as Latin America and Russia.

So, what will be the big stories in 2016? HD CCTV, 4k displays, smarter storage, public safety, and the impact of IoT in residential applications are just some of the trends discussed in our sixth annual white paper on trends for the year ahead. The predictions on the following are to provide some guidance on opportunities in the video surveillance industry.

Trend 1: 4K video surveillance – headway or hype

By Josh Woodhouse, Senior Analyst, IHS Technology

4K video surveillance has been repeatedly touted as a major trend in video surveillance for the last 18 months and it can sometimes be challenging to see past the marketing hype. Yet make no mistake, the video surveillance market is going to 4K cameras; it's only a matter of when rather than if. For 2016, IHS is predicting:



Josh Woodhouse.

- Volumes of 4K cameras shipped in 2016 will remain low, less than 1 % of the 66 million network cameras projected to be shipped globally. We are unlikely to see over one million 4K network camera units shipped in a calendar year until 2018.

- More “4K-compliant” cameras will be launched because of the increased use of 4Kp30 and above chipsets, meaning more cameras adhering to 4K standards, such as SMPTE ST 2036-1.

- Like the HD surveillance cameras, early 4K models offered the resolution at lower frame rates. We'll see more cameras with a higher frame rate offered, and closer ties to other video standards.

- In terms of marketing, there will be some video surveillance vendors, with one eye on what is happening in the consumer electronics world,

which will market to the UHD Alliance premise that “not all UHD is created equal”; we are likely to see them use marketing in the style of Ultra HD Premium, attempting to “differentiate” some 4K surveillance cameras by a focus on HDR/WDR (high dynamic range) and colour representation. Perhaps there will be promotion of ‘super low-light performance’ further down the line.

- Many of the challenges 4K faces were overcome for 1080p surveillance. The prevalence of 4K in video surveillance compared with 1080p resolution seems further ahead than it was with the consumer market at a similar development stage. In 2010, 85 % of TVs shipped globally were capable of outputting 1080p video, compared with 20% of global network cameras. By 2014, 5 % of TVs shipped globally could output above 1080p compared with 12 % of network cameras.

- As discussed in our trend 2 below “Another boom year for HD CCTV in 2016”, network surveillance cameras will not be the only option for 4K surveillance, as HD CCTV will eventually bring 4K resolution video to non-network systems.

In 2016, 4K video surveillance will continue to attract significant attention and hype despite widespread adoption and high unit shipments being still some way off. As with full HD surveillance, the initial objections and barriers will certainly be overcome; with 4K resolution in time becoming the industry standard.

Trend 2: Another boom year for HD CCTV

By John Croyley, Principal Analyst, IHS Technology

Demand for HD CCTV cameras and recorders has grown rapidly in recent years. In fact, IHS forecasts that in the professional market, shipments of HD CCTV cameras will grow from fewer than 0.2 million units in 2012 to over 28 million units in 2016.

This growth is despite adoption of HD CCTV equipment being initially slow. Several versions of HD CCTV have now been released; but HD

SDI, which was introduced in 2009, suffered from a number of problems including high price and low cable reach.

Then, in 2013, Dahua introduced HD CVI. This is an analogue solution (HD SDI is a digital solution) and its launch was followed by two other analogue HD CCTV solutions, HD TVI and AHD in 2014. Similar to HD SDI, these analogue solutions allow users to receive HD footage over their existing coaxial cable. However, they have a much lower price



Jon Croyley.



→ than HD SDI solutions and a greater cable reach.

Most of the growth in demand for HD CCTV since 2012 has therefore come from the three leading “analogue HD” formats with each battling to become the dominant standard. The incompatibility of these standards has been cited as a major drawback to their even greater adoption. It is argued that once a user has selected cameras and recorders using one of these technologies, they are tied in to replacing them and expanding their system with cameras and recorders using the same technology. In late October 2015, at the CPSE Chinese security trade show, the chip vendor Techpoint announced that it had made the first step in removing this barrier. It claimed that DVRs using the latest generation of its TVI

chips can record footage from both TVI cameras and AHD cameras.

Another barrier to greater adoption of HD CCTV that is often cited is that its maximum image resolution is much lower than that of network cameras. Techpoint announced plans to overcome this barrier too, by launching 3 megapixel equivalent cameras, followed by 5 and 8 megapixel equivalents. Its competitors are likely to respond by improving the functionality of their own solutions.

Given this background, IHS forecasts that HD CCTV equipment will be increasingly selected in preference to SD analogue equipment. Growth in the longer term is likely to be constrained by the move to IP cameras. However, 2016 at least will be another boom year for HD CCTV.

Trend 3: More storage options for video surveillance

By Josh Woodhouse, Senior Analyst, IHS Technology

Storage configured for video surveillance is gaining more industry attention. The RAW capacity shipped of SAN, NAS and DAS storage used for video surveillance is increasing at around 40% each year. (CAGR 2014-19). The traditional boxed appliance model, (born out of the death of the VCR) typically included DVRs in a capacity to suit and perhaps external DAS for extra capacity; this was simple and it worked. Yet video surveillance has evolved and this type of approach has been insufficient for an increasing percentage of users.

Average camera resolution continues to increase. HD-compliant 1080p 25/30 fps cameras have established themselves as the minimum expected from new cameras. Panoramic and 4K cameras are two further storage-hungry high-growth categories.

Analytics and more efficient compression technologies will reduce some of the storage requirements. However, these technologies are not going to offset the large increase of data from increasing shipments of higher specification cameras, which are capturing much more information than ever before.

Also the increasing perceived value of video information will increase the length of time it is stored. Increased storage requirements in video surveillance is the consequence that few want to talk about or to plan for.

Body-worn camera boom

The body-worn camera market could drive the wider video surveillance industry to re-assess its approach to storage design. Shipments of body-worn cameras are forecast to boom in 2016. Specifically, in the United States, tens of thousands of new body-worn cameras will enter the market with the assistance of new federal funding. All these cameras require their footage to be retained for long periods (often years). Despite the unit shipments of body-worn cameras being only a drop in the ocean compared with those of traditional fixed video surveillance cameras, several parallels can be drawn between the storage headaches faced by both markets:

- Many of the end-users and those tasked with maintaining body-worn cameras (law enforcement officers) have a limited IT background (like many security professionals). They need an integrated system designed with total cost of ownership in mind, accounting for both upfront and maintenance costs.
- The probability of reviewing footage decreases with its age. However, preferably it should remain accessible. Increasing retention can provide anti-litigation, insurance and operational assistance. An efficient

storage infrastructure can enable the use of post-recording analytics.

- There's likely to be an advantage in pulling together stored information from different inputs –video + metadata from other sensors:

- Body-worn for law enforcement – other digital evidence or wearable tech.

- Video surveillance – connected IoT devices.

Initial cloud storage offerings have made headway in the body-worn camera market, yet IHS believes that the longer-term costs of increased spec. cameras and more widespread deployment mean a hybrid approach will best suit the larger systems. This approach will incorporate multiple storage types and will often be the most cost-efficient solution. In its most basic form, this means a combination of cloud and local storage with one unified platform.

Increased use of multiple tiers of storage

The use of this approach for body-worn camera storage could be the catalyst for the wider adoption of a similar approach in video surveillance storage, especially in higher channel-count systems.

In the market for storage used for video surveillance in 2016 we can expect to see: Increased use of multiple tiers of storage. Use of storage tiers in video surveillance has previously meant just a separate archive or directly attaching add-on capacity to recorder appliances. Now we're seeing a multitude of options designed for video surveillance, which all pull together different storage tiers (in some cases storage media) into a unified platform. This allows more efficiency in varying how recorded footage is treated throughout its lifetime; in some cases data is moved from edge to centralised storage and into the cloud.

Video surveillance suppliers and storage specialists

As storage demands have increased, some video vendors are turning to specialists to provide systems which can cope with high numbers of high-resolution video streams. In terms of video management software, this means the integration of data from different storage types, tiers and physical locations is required, with similar performance from each.

Chinese vendors increase enterprise storage offerings

Commonly storage can account for most of the equipment cost for higher-channel-count systems. Large capacity storage can be very expensive. As seen in many product categories, Chinese vendors have extremely competitive offerings; specific storage for video surveillance has been behind cameras on their product development roadmap. This year we'll see more enterprise storage products for video surveillance available from Chinese vendors.

The industry has moved so far from the days of the cassette recorder. However, its implementation of enterprise storage may be forced to evolve further to cope with the demands of increasingly low priced but high specification cameras.



Trend 4: The demise of pure server-based analytics

By Aaron Dale

The market for video content analysis has endured a rough ride to date; nevertheless, its development remains intently monitored by the wider surveillance industry. IHS has researched the video content analysis market continuously for over 10 years, tracking consistent growth despite various challenges to date. Again, in the latest publication of market data, demand for intelligent video surveillance solutions remained strong. However, this disguises a fundamental shift in how such solutions are being implemented.

In the early years, the preferred way of running video content analysis was on off-the-shelf computers or servers. This circumvented the need to replace existing video surveillance equipment; and the use of servers provided the required level of processing power. This approach was largely standard amongst the dedicated software suppliers that were formed to target this market. Initially, strong growth prevailed until around 2008, when the industry suffered extensive reputational damage after it had widely overstated the capabilities of video content analysis. More recently in 2014, a milestone was reached: the first decline in the market for pure server-based video analytics (dumb cameras connecting to a server that carries out all the processing).

In 2014, the market for pure server only based analytics was estimated to have shrunk by \$39.4 million in one year to \$81.9 million. This was accompanied by a strong rise in the market for edge-based analytics, indicating a substantial shift in preference. The increasing prevalence of edge-based video analytics

comes as no surprise, given the vastly increased processing power on board today's video surveillance cameras enabling the option, and lower total system and networking costs fuelling it. However, a more steady transition, along with a continued dominance of server-based analytics in certain environments was still forecast.

It is inevitable that the on-board processing power of video surveillance cameras will continue to increase and many applications will be performed at the edge. However demand for high-end server based analytics is expected to be sustained. With the future prospects for server-based video analytics looking ever bleaker for more basic applications, IHS expects that the remaining dedicated software providers will look to partner manufacturers with video surveillance devices to develop the level of intelligence that is embedded on them; this will further drive the trend away from pure server-based analytics in 2016.



Trend 5: New markets for body-worn cameras

By Oliver Philippou

Few would argue against a growing need for body-worn cameras on police officers. Body-worn cameras cause both police officers and members of the public to modify their behaviour, potentially save police forces time and money, and provide clear, transparent evidence.

In 2015, several police forces around the world choose to deploy body-worn cameras to assist their officers, including the London Metropolitan Police, which agreed to deploy 22,000 body-worn cameras to all of its front line officers, further extending the use of body-worn cameras in law enforcement.

North America and Western Europe were the leading markets in 2015, accounting for 79% of the 135,000 body camera units shipped to the law enforcement market. This is a trend that is not expected to slow down either, as regions such as the United States, Benelux, France, Germany and the United Kingdom are expected to continually increase the proportions of their police forces using body-worn cameras.

However, come 2020, IHS forecasts most of the markets in these regions to have reached near saturation, becoming mainly replacement markets.

If camera manufacturers are to continue to grow, IHS predicts that they will need to widen their customer base and to sell to markets other than the public safety sector. There are many such commercial markets that could benefit from body-worn cameras, including repossession officers, club bouncers, electricians and plumbers. However, IHS has identified Correctional Officers and Manned Guarding as two key potential markets in the future.

Correctional officers

In 2012, Los Angeles County tested body cameras in the jails, but the technology was less developed at the time, prompting the county to opt for fixed surveillance cameras instead. However, as the technology has developed, and become more widely used in the police and law enforcement community, jails are now starting to consider their use.

In September 2015, following the death of an inmate at Santa Clara County, supervisors decided to equip all jail guards with body-worn cameras. San Francisco also announced a similar step. It was hoped that, as with police officers and members of the public, the technology would be most effective in preventing escalation during guard-inmate interactions, whether abusive behaviour towards guards or unnecessary use of force by guards. It was also hoped that body cameras would save jails time and money, and provide clear accounts of interactions between guards and officers.

In the United States, an estimated 400,000 correctional officers are guarding 2,200,000 inmates, across the federal and state prisons, and county jails. This is a huge potential market.

Manned guarding

Private security firms such as G4S, Securitas AB, AlliedBarton, and Chubb Fire & Security are just some of the companies that employ

In the United States, an estimated 400,000 correctional officers are guarding 2,200,000 inmates, across the federal and state prisons, and county jails. This is a huge potential market.



→ the estimated 1,200,000 security guards in the United States. In such a litigious country, there is a clear benefit in an officer activating a body camera with a simple push of a button to provide a real-time recording of an event and creating an objective record of events as they happen.

Again as with police officers and correctional officers, the ability to quickly and decisively understand what happened during an incident or a complaint allows companies to save both money and time.

IHS can foresee opportunities for security companies to offer tiered pricing for providing security guards with body cameras, and the storage and management of the video data.

VSaaS or Priority?

There are two main methods for storage and data management: local or priority (on-site storage on a physical server owned, controlled and maintained by a private server), or third party "VSaaS" (off-site "cloud" storage and management through an external data centre such as Amazon Web Services or Microsoft Azure).

There is still much debate as to which storage method is the best option within the law enforcement market. However, with the two examples

of correctional facilities and private security guards, the decision whether to use a VSaaS or priority method is much more clear cut.

For correctional facilities a local or priority data storage method offers the best and most affordable solution. The ability to have a dedicated server within a jail, where the number of cameras and the amount of data generated will be fairly easy to forecast, and the physical distance between all of the users and the server is minimal, there would be little point in having any other solution.

Manned guarding however, is a market that is much better suited to a third party "VSaaS" method. This method would offer the flexibility and scalability that would be needed for this market, and allow security guards spread all over a country to access and download their videos to a central storage site very easily with just a computer and an internet connection.



135,000 body camera units shipped to the law enforcement market.

Trend 6: Heightened concern over public safety

By Paul Bremner

In the wake of tragic terror attacks on high profile cities, notably two mass shootings in Paris, one at the start of 2015 and one at the end, public safety is once again at the top of the agenda.

The public safety market will benefit in 2016 from a number of major technical developments that are starting to make their mark on the wider security market. The most important for the public safety market is the ability to take interactive, wired or wireless metadata and process it with analytics to provide "actionable intelligence" in cities. This has become increasingly important, as 2015 brought new threats to cities in the form of mass shootings. Previously, when it came to terrorist threats, cities had focused on the threat of suicide bombing. This required emergency services to be able to respond quickly, police to cordon off an area, ambulances and paramedics to treat the wounded, etc. The threat of mass shootings requires a far more rapid response; as the threat itself is fluid, it becomes more difficult to coordinate the emergency services response.

The most important for the public safety market is the ability to take interactive, wired or wireless metadata and process it with analytics to provide "actionable intelligence" in cities.

a safe city approach. The safe city concept is based on a consolidated IT platform which combines public-safety information from different types and sources obtained through sensors, and multi-agency collaboration. Safe city projects have three aims: intelligence gathering before an event; the ability to take effective action during an event; and making

The technological advances seen in video surveillance with video analytics, as well as in public safety command and control centres with enhanced integration between sub-systems, are allowing cities to improve their response times to incidents of all kinds.

IHS expects development of safe cities will continue into 2016, with an increased urgency from those cities yet to adopt a



video feeds and other sensor data for post-event analysis.

Cloud-based technology, such as video surveillance as a service, is yet another technological advance cities will use in 2016; since it gives them a flexibility that would otherwise be unavailable. Cities using cloud-based technology benefit in two ways. First is the technological aspect, with benefits from: rapid elasticity, meeting high demand without new hardware; broad network access from any device, anywhere; and resource pooling, being independent of hardware or location. Second is the budgetary aspect, with benefits from: the city only paying for the capacity it needs at the moment, scaling up or down as required; no need for major capital expenditure, as projects can be funded through an operational budget; and the city being able to make multiple investments across the city as capital is not tied up in one large project.

The combination of a heightened awareness of a potential terrorist event in cities and advances of technology in both video surveillance and command and control systems will lead to more cities undertaking safe city projects, to increase the size of the public safety market.



Trend 7: Drones – mobile video surveillance 2.0

By Niall Jenkins, Research Manager IHS Technology

Mobile security cameras are relatively common now in the video surveillance market. IHS estimates that 1.3 million cameras were shipped into mobile applications in police cars, trains, trams, transit buses, school buses and body-worn applications worldwide in 2015.



Niall Jenkins.

Mobile video surveillance is good at capturing what has happened in the vicinity of a vehicle it is attached to. Body-worn cameras have taken this mobility one step further, recording the scene as viewed by an individual police officer.

However, to date, there has not been a truly mobile security camera: one capable of following an event irrespective of whether the person or vehicle it is attached to is close by.

Enter the drone-camera

As IHS reported in its CPSE event review, a number of exhibition stands featured drone nets at the show. Expect this to become an increasingly

common feature at security trade shows around the world.

Drones have been used for military purposes for many years. However, the potential video surveillance applications are extremely exciting, especially in the public safety market. For example, a number of police forces have shown interest in using them to extend their surveillance networks to the skies. In the United Kingdom, forces in Cumbria, Kent, Lincolnshire, Dorset, Devon, and Cornwall have already stated that they are trialing drones. Similarly, the Tokyo police are launching a police unit capable of defending citizens from drone attacks, a threat which will become increasingly likely as drones become more common.

The sky is the limit

IHS also predicts that enterprising video surveillance equipment vendors will increasingly offer their own video surveillance equipment on drones, either through OEM arrangements or through strategic partnerships with drone manufacturers. This has already started, with Hikvision promoting its own drone at recent trade shows and exhibitions. As drone technology improves – driven by the consumer electronics market and initiatives such as Amazon's drone delivery system – the sky is the limit for drone-camera technology.

Trend 8: IoT in video surveillance – a mixed bag

By Niall Jenkins, Research Manager IHS Technology

The Internet of Things (IoT) is a technological evolution based on how connected devices can be used to enhance communication, automate complex industrial processes, and make cities and homes smarter. According to IHS there will be 25 billion smart appliances, wearables, game players, and other consumer devices connected to the Internet of Things (IoT) by 2025.

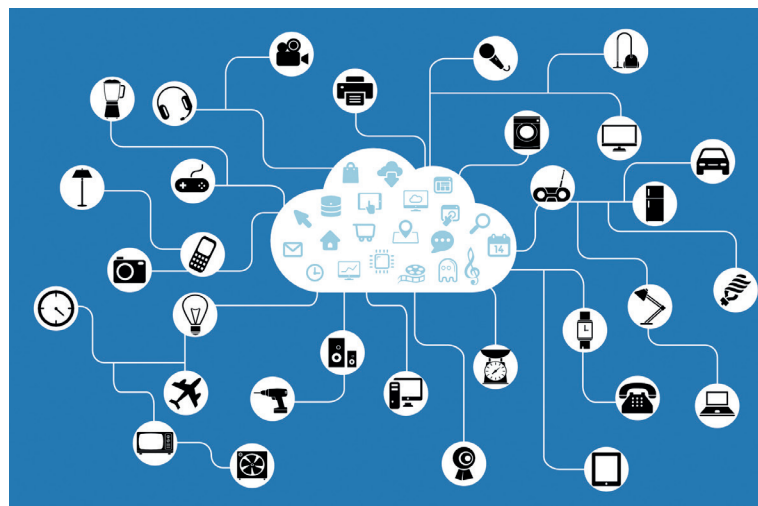
Whilst there is still much hype on the concept, IHS has made some predictions on the impact in the real world of IoT on the video surveillance market:

1. The IoT will have no impact on the commercial video surveillance market in 2016. Security systems integrators are generally slow to adopt new technology and the proliferation of wireless connectivity will not change how professional video surveillance projects are installed or how video surveillance cameras interact with other connected “things”.

“The residential security market has already been fundamentally changed by the IoT.”

2. The residential security market has already been fundamentally changed by the IoT. The ‘smart home’, an IoT application, has been built around the security and video surveillance offering. MSOs, such as Comcast and AT&T, have entered the residential security market offering connected intruder systems and security cameras. Incumbent security service providers, such as ADT and Vivint, have increased their product offerings to include connected devices for energy, heating, home automation and, of course, video surveillance. Companies offering smart home devices, such as Samsung Smartthings and Lowe's Iris, also feature video surveillance products prominently in their core bundles.

3. By 2020, the IoT will have some impact on how enterprise commercial video surveillance projects are implemented. The security camera will no



According to IHS there will be 25 billion smart appliances, wearables, game players, and other consumer devices connected to the Internet of Things (IoT) by 2025.

longer only be a security product. It will also act as a sensor for the building to assess room capacity, the movement of people and identify who has entered the building. The IoT will drive the building's decision to apply heating, lighting, and entrance control as well as a whole host of other scenarios that haven't been thought of yet.

4. The video surveillance IoT story will start in the United States, but China will quickly become the leader for connectivity in physical security. Western Europe will lag behind both regions.

5. By 2025, even small commercial and retail video surveillance systems will be interacting with buildings and leveraging the IoT to provide heating and lighting solutions, automated access control, and even communicating with your smart home to let it know when you leave the office.

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- Lens optional: 35/60/100mm
- Visible camera support 40X optical zoom
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Thermal Dome Camera SD5300/SD5600 (-T)

- Thermal resolution: 640*512 or 336*256
- Lens optional: 13/19mm
- Tri-mode output: IP/HDCVI/Analog
- Support IVS
- IP66-rated

Thermal Bullet Camera BF5300/5600 (-T)

- Thermal resolution: 640*512 or 336*256
- Lens optional: 7/13/19/35mm
- Tri-mode output: IP/HDCVI/Analog
- Support IVS
- IP67-rated



Dahua Technology, a world-leading manufacturer of video surveillance products headquartered in Hangzhou, China, introduces the smart thermal camera series to provide superior image quality and advanced features for the perimeter, electrical industry, and manufacturers of security applications. The camera series is designed to find heat sources, able to offer highly detailed images and has an extensive feature set.

The Dahua new smart thermal network camera family includes a thermal hybrid PTZ camera, hybrid speed dome camera, thermal bullet camera and thermal dome camera, all equipped with a variety of smart functions. The smart thermal cameras incorporate a top-notch sensor that is capable of detecting tiny differences in temperature. These cameras can achieve higher detection accuracy and it are able to function in complete darkness and adverse weather conditions. Furthermore, the cameras combined intelligence, efficiency and high performance such as smart detection, smart analysis, smart perception, smart

tracking and smart control.

The smart thermal network cameras can precisely determine the object temperature and the temperature distribution even on small and fast moving objects. These cameras are excellent for detecting a water leak behind a wall, a person hidden in the bushes at night, or identify passengers with a fever passing through a checkpoint.

The Dahua thermal hybrid network PTZ camera is a professional combination of a visual camera with an integrated max 40x optical zoom lens and a thermal camera, perfectly synchronised in pan and tilt movements. The network camera can capture images

in full scale without the need to step back or frame the shot. The thermal camera is effective for use in night-vision missions or precise thermographic surveys. The special lens focuses the infrared light emitted by all of the objects in view. It can deliver several independent H.264 streams for different quality needs and bandwidth constraints simultaneously.

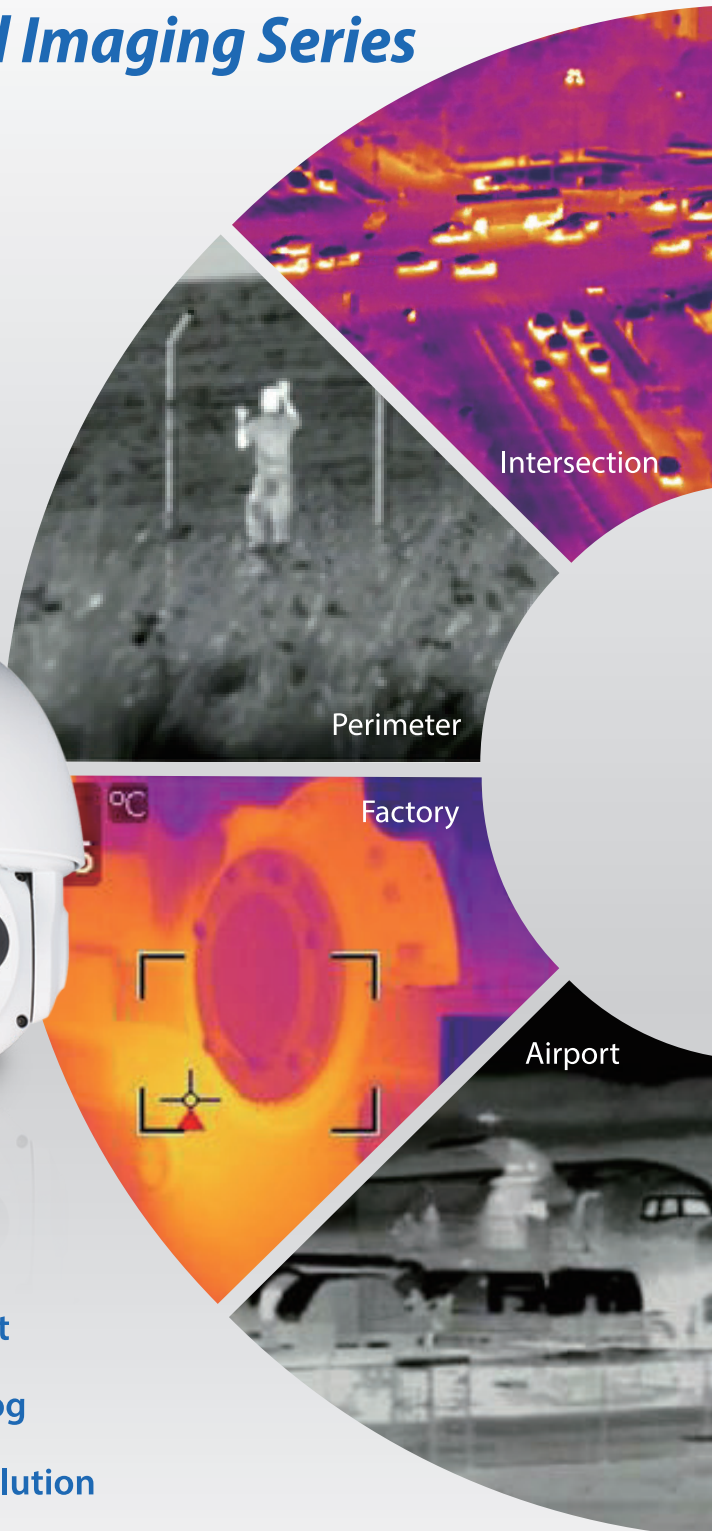
Dahua also provides software and accessories including smart PSS, NVR and DMSS to work together to meet the individual requirements of the transportation industry, energy industry, border and coastal surveillance, etc and other special applications.

About Dahua Technology

Dahua Technology Co., Ltd. Is a world-leading manufacturer of professional security and surveillance equipment. Over the past 15 years, Dahua Technology has invested heavily into the Research and Development of innovative solutions that improve public safety. Dahua's solutions are designed to be scalable and modular to provide flexible configuration options. The company is ranked 5th in the Security 50 rankings from A&S International for 2015. Dahua enjoys the world's second largest market share according to the IHS 2015 report. Visit <http://www.dahuasecurity.com> to learn more.

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ONVIF toughens stance on false compliance claims

ONVIF's investment in access control has not yet become a success. However, a new standard for access control will be released in June and the open industry forum has opened up for the possibility to report companies that make false claims of ONVIF conformance.

"Unfortunately, most of them are Asian manufacturers", says Per Björkdahl, Chairman of the ONVIF steering committee.

By Henrik Söderlund

ONVIF was founded in 2008 with the target of developing a standard for the interface of IP-based physical security products and today it has about 500 members. Per Björkdahl has been Chairman of the ONVIF steering committee since September 2012 and was re-elected for another year in December 2015.

You had hoped that the success of the standard for network video would spread to access control. Why do you think that it has not happened?

"The profile for access control is somewhat limited when it comes to features and has not been very popular in the market. I thought there would be a greater will for integration between VMS and access control players. Perhaps some are pleased with what they have and are not in a position where they need a standard."

Did you overestimate the market potential?

"To some extent we overestimated the demand for integrated systems in the market in general. It is not growing as fast as people think. I thought it would grow bigger faster."

Do the traditional access control manufacturers consider rapid development as a problem as they make money on their current proprietary solutions?

"Perhaps it is more a matter of natural evolution. I believe the access control sector is in a similar position to that of the video

surveillance market when network cameras arrived and challenged analogue cameras. There are huge proprietary systems up and running and companies are able to service those systems and live on those sales, but this will certainly change. We have a very changeable market where companies are merging and it follows that access control systems may also merge."

How do you move on?

"We are working on a new standard for access control called Profile A, which contains more features. It is currently in release candidate mode, meaning that it is almost finished and members can now try it, integrate and check that it works. It will be launched in June 2016."

Have you thought about how to encourage smaller manufacturers to embrace Profile A?

"Yes, we have them in mind in our marketing and we have thought about them in terms of modernisation and how to manage time schedules, which is quite central for access control applications. I am absolutely convinced that access control will eventually be in the same position as video surveillance, but it is hard to say exactly how long it will take. However, we see already that the big VMS manufacturers are starting to look at access control."

Are you working on more profiles?

"Yes, a video profile named Profile Q. It addresses what we call



Per Björkdahl has been Chairman of the ONVIF steering committee since September 2012 and was re-elected for another year in December 2015.

"out of the box". Today, you usually have to create an ONVIF user before you can launch the product in an ONVIF system, just like one must start up a product from any manufacturer with a password before one can start to use it. We have tried to simplify the process a bit and allow better management of the security and self-signed certificates that are deployed more and more in the VMS applications in order to increase safety. It will also be released in 2016."

In the autumn you launched a web-based reporting tool for reporting false claims of ONVIF conformance. Why?

"Both the media and the market have observed that there are products marketed as ONVIF conformant but that are not listed by ONVIF. We have an obligation towards our members and we want to give them the opportunity to report false claims."

How does it work?

"We have added a reporting tool on our website – which contains the only true list of interoperable products. Those who wish to check can go to the website and search for a product in our database, which also contains test reports. If the product is not there, then you can report it – anonymously or not – and our helpdesk will take care of it."

And then?

"If the report is correct, we will notify the company by letter stating that they are violating our trademark since ONVIF is a registered trademark and we will encourage them to stop, or to become a member and officially claim conformance. Otherwise, we reserve the right to take action."

What kind of answers do you get?

"The most common response is: "Oops, we did not know" and they will become a member, or "Oops, we did not know, we bought this product as an OEM and the data sheet says that it is ONVIF-interoperable."

How many warnings have you sent?

"I can not give you a number but it is not a troubling amount. What is important is that we find it and do something about it."

What sort of companies are involved?

"They are mostly Asian manufacturers and particularly from China. The trademark tradition is different in China and that goes for all industries, not just the security industry. We aim to increase our presence in China and, for example, we held a presentation in Chinese at the major CPSE security trade show in Shenzhen."

WHAT COULD BEAT THE ULISSE?

ULISSE2

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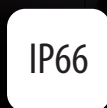
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World's first NFC enabled lock

Oulu, Finland

Iloq has unveiled the world's first NFC-enabled lock which is powered by the mobile device being used to operate it. Mobile devices have now become keys, as well as wallets.

There are numerous benefits to mobile smart locks: creating, sharing and revoking access while using your phone as a key. They are how the homes, offices and warehouses of the future will be physically secured. However, currently every other smart lock on the market needs to be powered by batteries or a cable power supply.

"With traditional smart locks, costly regular battery renewal processes or expensive wiring is needed to get the locks powered and

connected. These costs really start to matter the more the locks you have," said Iloq CEO and founder *Mika Pukari*.

"Our innovation brings a huge change in the smart lock market. It makes smart locking the best solution where there is a need for high security and real-time access management of locks and users."

The Iloq NFC is so small it fits almost any kind of lock cylinders, padlocks or cabinet locks. This makes the Iloq NFC easy to install, by replacing the existing lock without extra installation work to the door. Real-time access right management is handled by the Iloq Manager cloud-service.

With Iloq NFC users can now always find their keys and have real-time access management. Iloq NFC smart locks harvest electricity from the user's phone via induction through NFC; so that it not only works as the key, but also the power source for the lock. The technology is patented, ready and fully functional.

Iloq has long been a pioneer in self-powered smart locks, having introduced in 2007 the world's first lock that was powered by harvesting electricity from key insertion.

"Now we have combined our expertise in minimum energy smart



"Our innovation brings a huge change in the smart lock market"

locks and the smart phone's ability to give energy through the NFC induction. Opening the lock works by touching the door knob with a phone that has an access right to it" said Mika Pukari.

swh

Triple-Tech Pearl integrates with CCTV

Heywood, Manchester (UK)

The Pearl Triple-Tech detector from GJD manufacturing is designed to trigger genuine activations - it can be integrated with CCTV and alarm systems to avoid nuisance alarms. Combined with PIR, microwave and anti-masking technology, the Pearl provides reliable and trustworthy security against potential crime.

w, Managing Director at GJD commented: "The Pearl is an aesthetically pleasing product. It may be small in size yet its quality, reliability and performance are not compromised. The Pearl detector is

a high-end product to help protect residential, commercial or industrial premises".

The Pearl detector is equipped with PIR, microwave and anti-masking sensors. The combined technology ensures nuisance triggers are kept to an absolute minimum. It also comes equipped with anti-tampering circuitry and two separate output contacts.

Another key feature is its narrow PIR curtain beam, which provides precise and accurate detection solutions to protect both properties and people against crime.

The Pearl motion detector offers engineer friendly features such as a customisable "T" bracket suitable for narrow beam applications. An additional swivel bracket can be purchased for applications that require a bespoke pan and tilt angle.

The Pearl can be easily positioned to look across many areas including windows, doors or even the entire length of the house or property wall. It also has selectable detection ranges of 3m, 6m, 9m and 12m, making it suitable for a wide range of applications.

Available in silver and white, the

Pearl discreetly blends into the majority of PVC windows and doors. As the Pearl is also designed and manufactured with tamper functionality, it doesn't matter if the Pearl is mounted on a swivel or T-bracket as the tamper will still activate if vandalism occurs.

Other unique features include IP65 weather protection, low voltage and a two-year warranty. **swh**



Thermal PTZ camera for easy integration with alarm sensors

Wilsonville, Or (USA)



Flir has launched the Flir TCX PTZ thermal camera, which is designed to easily integrate with existing alarm sensors to deliver accurate, real-time visual assessment and alarm verification. It is available in 640x480 and 320x240 resolution, and has on-board video motion detection (VMD) analytics for accurate intrusion detection 24/7.

Flir TCX PTZ provides a

powerful platform that is able to give real-time visual assessment and visual alarm verification. No illumination is required, and it is able to outperform visual cameras at night, in challenging lighting conditions, low contrast scenes, inclement weather and heavily landscaped areas. It has also been engineered to work with legacy intrusion detection technology by providing clear visual imagery of detected motion or activity 24/7.

The TCX PTZ delivers performance with two resolutions and lens options - a continuous 360° pan, up to 400°/sec, -15° to 90° tilt, auto-flip 180°, 300°/sec and 4x continuous ezoom. Human observation detection range is from 25° ~ up to 390 m, and 32° ~ up to 570 m in good conditions. It also features WDR Thermal with DDE & AGC for clear video and video alarm verification 24/7.

This latest Flir offering is also produced to provide easy integra-

tion in all environments, with the flexibility to install into any new or existing system. To this end they are compatible with ONVIF Profile S IP, MPX (HDCVI) and analogue VMS systems. They feature PoE connectivity, 24 VAC, indoor/outdoor IP66 rating protection against ingress and work over a temperature range from -40C - 55C (Anti-Ice). Simple plug and play installation is achieved with the Flir mobile & PC apps, and Flir network and MPX recorders. **swh**

IPS upgrades Videomanager

Munich, Germany

IPS Intelligent Video

Analytics, a business unit of Securiton GmbH, is releasing the latest update, version 7.0, of IPS Videomanager and IPS Videoanalytics with various enhancements.

Among the new features is the dynamic ring buffer management, which leads to a more efficient use of the hard disk capacity. Furthermore the management of large multi-site-systems has been simplified through a centrally controlled backup of video recordings. Along with enhancements of the video wall functions, the IPS team worked on a better visualisation within the video manager client. Preview images will be displayed in the site plan, when moving the mouse pointer over a camera icon.

For H.264, the playback of the recordings can be controlled precisely and each single image can be displayed forward or reverse. This feature enables a maximum of accuracy in the forensic search. A requirement that is interesting

for applications such as casinos or financial institutions, where critical incidents can be completed within a split second.

Several enhancements, for instance within the log entries and the user rights were implemented, so that the IPS Videomanager is now compliant with the system requirements for video surveillance systems according to DIN EN 62676. Moreover the connection to third party systems has been simplified through one additional new file interface.

Numerous improvements were also made in the IPS server-based video analytics. *Peter Treutler*, Director of the IPS business unit, explains: "In version 7.0 of our server-based video analytics, our focus was on improvements of quality relating to the suppression of disturbances. In the end, the enormous potential of video analytics can only be fully exploited through reliable detection and low false alarm rates."

In addition there are new

features in some IPS

Video analytics products. Among them is the capability of object classification in the module IPS Loitering Detection. Improvements in the IPS Privacy Protection module provide more flexibility masking objects and therefore the highest possible privacy protection. One more new feature in this module is the option of irreversible blurring.

There have also been extensive improvements in the IPS Dome Tracker module, a video analytics software for the real-time control of PTZ cameras. The reliability of object tracking could be increased significantly, by being able to better detect potentially disturbing influences, such as rapid changes in movement or overlapping objects. Even when an object moves underneath the camera, it can be tracked smoothly.



Grundig VMS provides seamless and flexible integration

Remscheid, Germany

The Grundig VMS powered by VDG Sense, seamlessly integrates video security with audio intercom, parking management, access control and intrusion detection systems to provide scalable and flexible security solutions for people, site and asset protection - it is designed to run on off-the-shelf, ICT hardware, or on Grundig's optimised 8, 16 and 24 channel NVR control and recording packages.

Intelligent VCA (video content analysis) increases operator effectiveness and includes motion detection, Scene-R tamper detection, Car-R number plate recognition and Face-R face recognition. All can be applied

to live video and playback and used for input and output alarm triggering. Innovative features include system-wide event handling; extensive system scalability; tiered user rights; and open-protocol, third party integration using Grundig's own API.

Multi-server processing is available with failover protection. Storage options include RAID and NAS. Viewing is by an intuitive graphic user interface (GUI), video wall or web-client with keyboard, app and joystick control.

The Grundig VMS comes in Sense Pro and Sense Basic packages, both offering Scene-R and motion detection fun-

ctionality as standard with web interface, IOS and android client viewing. Sense Basic supports up to three clients with two input / output triggers. The Sense Pro supports up to 128 clients and 500 x I/O triggers. Sense Pro packages also support extendable, advanced, indoor and outdoor object detection, number plate recognition, face recognition, third party integration, failover server and flexible video channel licensing.

Grundig's VMS licences and NVR package systems, powered by VDG Sense, are designed to offer comprehensive security solutions to any site, anywhere.

For more info about the products, contact the suppliers directly by looking in the Security Buyers Guide on page 38

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Automatic Systems launches Firstlane

Brussels, Belgium

Firstlane is the new security turnstile offering from Automatic Systems and is designed to provide value for money whilst ensuring that safety and quality have not been compromised.

The modern design of the Firstlane is such that it is suited to any type of architecture and its range of advanced technologies satisfy just about every need with regard to performance. The Firstlane series comprises of two models: Firstlane 960 and Firstlane 970. Both offer the same advanced features the only difference being the size of the walkway, Firstlane 960 offers a compact footprint, while Firstlane 970, with its wider passage, is designed to meet the needs of people with reduced mobility.

The new Firstlane series combines best in class detection with advanced safety features. Firstlane uses the exclusive DIRAS (Detection Infra Red Automatic Systems)

technology. It follows the users' progression through the gate as well as ensuring their safety during opening and closing of the obstacles. With its multi-directional infrared beam matrix and its predictive algorithms, Firstlane's detection system analyses and anticipates the size, position, speed and direction of the user in the lane, being able to differentiate between fraudulent use and irregular passage.

Automatic Systems designed this new series to meet the needs of its clients who are always looking for a high-performance and reliable product to secure the entrances of their buildings. With the high opening and closing speed of its access points (0.7 sec.), the Firstlane can accommodate traffic of up to 60 users per minute and offers a high bi-directional flow allowing the entry and exit of two people at the same time so long as the users have a badge. It is Automatic

Systems belief that the Firstlane's total cost of ownership is one of the lowest price quality offerings in the industry.

Firstlane is easy to operate due to the user-friendly function pictograms, which help users interact intuitively with the equipment. With a focus on user safety, Firstlane is designed to prevent finger entrapment and other impacts and offers electronic user protection. Firstlane's low energy consumption and carbon footprint benefit both the running cost along with the environment.

All of this is available in a product that is designed and manufactured to European standards for quality and reliability. "Our ambition was to offer customers the best choice without sacrificing quality and security, attributes which have always been the hallmark of Automatic Systems." says Eric Van Grimbergen, VP Pedestrian

Division at Automatic Systems, "with the Firstlane series we have succeeded in our objective and we hope our clients will appreciate our efforts and will take advantage of this new opportunity".

David Enderle, VP Global Sales goes onto say, "Today's announcement enhances our product offering specifically addressing the growing market segment where a basic out of the box product is the perfect solution to secure a client entrance. It is part of our long-term commitment to excellence and customer satisfaction. We look forward to continuing our growth in the entrance control/turnstile market through industry leadership and innovations in 2016 and beyond". 



New Firstlane from Automatic Systems in Belgium.

Axis upgrades to Camera Station 5

Lund, Sweden

The new Axis Camera Station 5 introduces hardware decoding, integration of third-party IP cameras and Axis Optimised Rendering for high-definition identification and smooth videos with resolutions up to three 4K video streams. A new mobile viewing app allows for easy remote monitoring.

The user interface has been designed for ease of use, in that the 'Operator Mode' provides a dedicated interface for efficient operation that meets the requirements of the occasional user as well as the more active user in installations such as larger retail stores, schools and manufacturing facilities.

Axis Camera Station 5 introduces support for hardware decoding

and Axis Optimised Rendering. The new 'Scrubbing' function allows users to quickly search through video footage from multiple cameras at the same time.

A free mobile viewing app available for Android- and IOS-based mobile devices allows users to view live video from cameras as well as recorded video footage.

This new version of Camera Station allows users to take full advantage of Axis' wide range of video surveillance cameras and technologies. It supports 360° overview recording, H.264 compression, multi-view streaming, Axis' Corridor Format, Axis' Zipstream technology and advanced camera-based video motion detection. Additional

functionality can easily be added with ACAP applications.

Other security and video surveillance solutions from Axis such as door stations for easy identification and remote entry control or horn speakers for remote speaking in video surveillance applications can be used with Axis Camera Station 5 as well. To meet specific needs, the new version also supports integration of third party IP cameras.

"System reliability is fundamental in any video surveillance installation" says *Peter Friberg*, Director Solution Management, Axis Communications. "Axis Camera Station 5 together with our market leading portfolio of IP security pro-



Axis S10 recorder clients can upgrade free of charge to Camera Station 5.

ducts offer a proven and easy to use security solution for installations such as schools, manufacturing sites and more."

Existing Axis Camera Station customers with up to 32 devices and all Axis S10 recorder customers regardless of system size will benefit from a free upgrade to Axis Camera Station 5. 

New Vario bracket from Raytec

Ashington, Northumberland (UK)

The new Raytec Vario Universal Bracket (VUB) range is purpose designed for mounting single or multiple Vario illuminators.

As a complete family of brackets and mounting plates, VUB

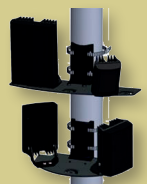
provides one of the easiest and most flexible mounting solutions to meet the challenges of any Vario lighting installation.

VUB Brackets and VUB Mounting Plates accommodate

multiple different sizes and combinations of Vario infrared and white-light illuminators and PSUs. They also allow for the independent pan and tilt adjustment of individual illuminators – ideal for

looking around corners.

New VUB range of brackets and mounting options.



New Illustra Pro with 30x optical zoom

London, UK

Tyco Security Products has introduced the new Illustra Pro 2 megapixel 30x PTZ camera, offering a powerful 30x optical zoom to deliver better forensic detail over greater distances.

The new Illustra Pro PTZ camera offers 30x optical zoom and 12x digital zoom, compared with the 20x zoom of the previous Illustra PTZ model. The combination of the PTZ's advanced optical capability and high quality HD resolution video allows users to identify critical details such as reading license plate characters at distances of more than 300 metres away from the camera.

To improve operator control with better precision and control accuracy, the Illustra PTZ uses zoom adjusted programme (ZAP) technology to automatically control the pan and tilt speed in proportion to the amount of zoom used.

The Illustra Pro 2MP 30x PTZ helps reduce the costs in network overheads and storage costs with improved low light performance and noise reduction.

Available in indoor and outdoor models, the new Illustra Pro PTZ delivers a greatly improved true wide dynamic range performance ensuring premium quality surveillance is maintained in the most challenging of lighting conditions. The clear video quality is maintained during rain, fog or snow through the advanced auto defog feature, while the whiteout highlight reduction feature ensures that car headlights or street lamps do not compromise the image during nighttime surveillance. The 30x PTZ also supports electronic image stabilisation for lower effects of vibrations from wind and other sources when using long range optical magnification.

This Illustra Pro 30x PTZ introduces a new intelligent guard tour feature using embedded intelligence to autonomously track, zoom in and record events or suspicious activities, allowing the operator to concentrate on other priorities without missing any vital activities. This feature unites motion detection, auto tracking and preset sequences to allow the PTZ to perform independent of a control room operator. Whilst moving through a preset tour without an operator present, the intelligent guard tour feature enables the camera to deliver the video evidence needed to identify key details necessary often making the difference in forensic investigations.

"We continually strive to push the limits in video quality, reliability and performance of our Illustra Pro cameras, to answer the feedback from our customers," said

Stuart Bettle, Video Product Marketing Manager, EMEA, Tyco Security Products. "The enhanced imaging features, embedded intelligence and industry leading precision control of the new Illustra Pro 30x PTZ delivers a premium quality PTZ camera well suited to meet the needs of customers in mission critical surveillance applications."

Compatible with American Dynamics Videoedge and Exacqvision video management system (VMS) software and recorders, the Illustra PTZ camera can be easily configured into a video security system. Also, a full line of indoor covers and outdoor mounting options are available for quick installation in any setting.



■ For more info about the products, contact the suppliers directly by looking in the Security Buyers Guide on page 38

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-  Warranty 2 years



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Simonsvoss advances to new markets

Unterföhring, Germany

Simonsvoss, now a brand of Al-le-gion plc, recently advanced into what the company believes to be a largely neglected market – the small office / home office (SOHO) market – with its secure digital access solution: the Mobilekey access system.

Mobilekey not only provides smaller systems for the many office spaces in private homes, but also in locations such as doctors' and lawyers' practices, architects' studios, consultancies, advertising agencies and other commercial enterprises.

The Simonsvoss Mobilekey product line is suitable for systems with up to 20 doors and 100 users. Intentionally kept manageable, the range offers an excellent price-to-performance ratio. The web-based system also makes it simple for users to benefit from the advantages of intelligent, electronic locking in a small system with few doors and offices because of its easy-to-operate features.

Like large systems, the elegantly designed Simonsvoss Locking System 3060 consists of digital cylinders in doors opened and closed by transponders (either PIN code keypad or smartphone). Authorisa-

tion allocation, time schedules, logging or remote opening can be managed using the web application on any terminal device. This simple, clearly arranged app also allows the end user to create accounts and generate locking plans, transmitting data to the Simonsvoss server, where the information is added. Lastly, the locking plan is sent back to the app and uploaded onto a compact programming device. This device takes the familiar form of a USB flash drive, with which users programme their cylinders and transponders.

Simonsvoss operates its own web service to calculate data, hosted by an audited Munich-based data centre. This ensures that processes are far more secure than mere local storage on a personal computer, thanks to end-to-end encryption.

The system is designed for easy installation, allowing Mobilekey to be put into operation in just a few steps. This even applies to replacing existing mechanical door cylinders with electronic ones, since no cabling or special tools are required thanks to radio technology. There's no need for a drill.

Creating a custom-configured

locking plan is as easy as setting up an email account. The individual doors, garage doors, barriers and other access points are given appropriate identifiers. Access authorisations and restriction can be allocated to individual persons using time zones. Users are, thus, able to control who has access to different rooms and for how long – and a log will track that information.

The whole locking system is ready for use as soon as the system has been custom-configured with the free app. Instead of mechanical keys, users can choose between a digital transponder, a PIN code keypad or opening and closing their doors easily with their smartphone. There are also digital Smartrelays which can be used to operate elements such as lights, heating and appliances in addition to electrically operated doors, gates and barriers.

The SOHO user can make changes as they wish, adding or removing keys and locks at any time. If a transponder is lost, it can be instantly disabled at the click of a mouse. A replacement is configured



just as quickly and is then instantly ready for use.

In addition to different types of digital cylinders, Simonsvoss also provides two starter sets: Mobile Starter Set 1 contains three transponders and the USB programming device, while Mobile Starter Set 2 also includes a PIN code keypad.

An online addition to the Mobilekey system is also available. This online version will connect networked locking components directly with the server via a Smartbridge with system equipment and authorisation changes implemented practically in real time. This version will additionally enable doors to be opened remotely, allowing users to open the door for colleagues, trade professionals or the persons of their preference from a distance.

swb

Geovision debuts Cloud Android TV app

Taipei, Taiwan

As the technology for television becomes more intelligent through the incorporation of Android systems, Geovision is releasing an Android TV app for Geovision Cloud IP cameras to allow users to monitor images on a larger screen using an easy remote control interface.

The Mygvcloud Cam App TV V1.0.0.0 can be simply downloaded free to a users Android Smart TV and then they can gain

unlimited access to their GV-Cloud cameras. Multiple live view is available to display up to 16 screen divisions. If more detail is desired on a single channel, switch to the Single Live View Mode and have the options of displaying in high-definition and enabling audio to hear sounds from the surveillance site. The Mygvcloud Cam App TV also provides access to recorded videos so the user will never miss a thing. With the Mygvcloud Cam

App TV, accessing Geovision cloud surveillance solution is now as easy as turning on the TV.

The Mygvcloud Cam App TV V1.0.0.0 supports many popular Android Smart TV and TV Box models.

Supported Android TV Box models include: Freebox TV Mini4K, Google Nexus Player, Kaon TV Power Up Unit, LG ST950I-LN, LG LAP250U, LG ST940I-UP, LG SH950C-CM,

Nvidia Shield Android TV, and Razer Forge TV. Supported Android TV models include: Sharp LC-**UH30U, Sony Bravia 4K 2015 Series, Tpvision 4K UHD Razor Slim LED TV, and Tpvision 4K Full HD Slim LED TV. The supported operating system is Android TV 5.0 or higher.



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China Security & Fire to spend \$150M on acquisitions

Singapore

According to reports from Reuters, China Security & Fire Co Ltd plans to acquire security assets in Australia and Thailand for more than \$150 million, adding to the growing trend of Chinese companies looking for overseas expansion through acquisition.

It seems that China Security & Fire is planning to spend A\$157.5 million (\$120.3 million) to purchase security related assets owned by Securecorp Australia Pty Ltd and eWitness Nominees Pty Ltd – this is according to a recent filing at the Shanghai stock exchange.

China Security & Fire has a Hong Kong subsidiary, and reportedly it will be through this company that the group will purchase Impact Success Limited and United Premier International Limited for 1.3 billion Thai baht (\$37.3 million).

An additional result of this deal will be that China Security & Fire will be allowed to indirectly own stakes in Guardforce Security Services (Thailand) Co Ltd, Guardforce Aviation Services Co Ltd, Guardforce Aviation Security Services Co Ltd and Guardforce Holdings (Thailand) Ltd.

According to Reuters, China Security & Fire also plans to raise up to 5 billion yuan (\$770 million) in a private placement of shares to help fund the acquisitions, which was reported from a separate filing.

The rest of the proceeds would be used for security-related products and repaying bankloans. The reports also say that trading in the company's Shanghai-listed shares is still to remain suspended as they have been since mid-December when they were halted pending an announcement from the company.

Amongst other activities, China Security & Fire Co., Ltd

provides integrated security systems and is also involved in the computer systems integration, technological development, and technology transfer activities, and provision of technical consultancy and services in the field of computer software and data processing. It has operations in China, South America, Asia, Europe, and Africa. The company was formerly known as Shanghai Feilo Co., Ltd. and changed its name to China Security & Fire Co., Ltd in March 2015. China Security & Fire Co., Ltd is headquartered in Shanghai, China.

Tyco opens new global HQ in Ireland

Cork, Ireland

Tyco International plc has opened its new global headquarters and business service centre at One Albert Quay in Cork, Ireland this week, with a ceremony for more than 400 guests. Subject to regulatory approvals later in the year this will become the global headquarters for Johnson Controls plc, the resulting combination of the recent Tyco International and Johnson Controls merger.

In January 2014, the company, working in partnership with IDA Ireland, announced plans to establish a global business service centre and hire more than 500 employees over three years to provide consistent, efficient delivery of several processes for its

businesses, including sourcing and procurement, customer service, research and development, information technology and finance. Later that year, Tyco also shifted its place of incorporation to Ireland. Approximately 250 employees are now working in the new building.

"We are extremely pleased with how quickly this impressive facility has become a reality with the help of many partners in the government, private and academic sectors in the Cork area and throughout Ireland," said Tyco Chief Executive Officer *George R. Oliver*. "The centre is already producing strong results and has woven into the fabric of the Cork community. We look

forward to becoming an employer and partner of choice in Ireland and continuing to make significant contributions as a corporate citizen."

In One Albert Quay, a prime office property created by Irish developer JCD, Tyco has linked together several technologies that reflect its strategy to help solve broader challenges for its customers and the trend toward smart connected technologies in homes, buildings, and cities. Using its Tyco On smart services platform, Tyco has integrated the control and optimisation of more than 10 building functions, ranging from Tyco's core fire protection, security and asset tracking systems to

features that enhance building efficiency and the comfort and convenience of employees and visitors, such as energy-saving elevator and lighting management, HVAC maintenance and smart parking.

In January of this year, Tyco and Johnson Controls announced plans to merge and create a global leader in building products and technology, integrated solutions and energy storage. Subject to shareholder and regulatory approvals, the merger is expected to close later this year, at which time Cork and One Albert Quay would become the global headquarters for the combined company, Johnson Controls plc.

Axis and Nedap launch vehicle ID system

Groenlo, The Netherlands and Lund, Sweden

Nedap Identification Systems and Axis Communications have introduced an integrated solution based on Axis' physical access control products. The complete standalone solution leverages the transparency and flexibility of Axis' standards-based IP-based approach to deliver a scalable and easy-to-install method to combine long-range identification with efficient physical security devices.

By combining Nedap's readers for long-range identification with

Axis' products for physical access control, customers will be able to benefit from an open and future-flexible IP-alternative to enhance their security solutions. Axis' physical access control products cover a variety of application needs, from identification and entry control to advanced access management.

Nedap's Transit Ultimate is a robust long-range identification reader, based on semi-active RFID technology, enabling auto-

matic vehicle and driver identification at distances of up to 10 m (33 ft.). This high-end reader is now available as a standalone solution, taking advantage of the open architecture of the Axis A1001 IP-based network door controller that features embedded access management software. Nedap's Upass readers offer long-range vehicle identification using the latest UHF technology. The Upass readers are expected to become available as standalone

solution this year.

"As a result of our partnership with Axis, we are able to provide our sales channel as a state of the art standalone physical access control solution that leverages the full potential of our high end long-range identification readers," says *Wouter Vansteenkiste*, Senior Channel Development Manager at Nedap Identification Systems.



swi

Samsung Techwin rebrands to Hanwha Techwin

Weybridge, Surrey (UK)

In November 2014 an agreement was signed which saw the controlling shareholders of **Samsung Techwin** sell their holding stakes in Samsung Techwin to Hanwha Group, giving Hanwha Group a 32.4 % stake in Samsung Techwin. Now, as of April 1st, 2016 Samsung Techwin Europe will be operating under the name Hanwha Techwin Europe Limited.

“One year ago we made the announcement that Samsung Techwin had become a part of the Hanwha Group. While our name is changing, the innovation, quality and reliability of our products will remain the same,” said **Bob (H.Y.) Hwang** Ph.D., President, Samsung Techwin Europe. “The same is true for our factories, sales companies and channel partners

which remain unchanged – Hanwha Techwin Europe will continue to offer the best in value and performance to the professional surveillance and security industry.”

Samsung branded solutions offered by Hanwha Techwin include a growing line of the advanced WisenetIII megapixel cameras, along with new additions to the popular Wisenet Lite line.

The company's introduction of Wisenet HD+ (Analogue High Definition) cameras and DVRs enables users with analogue infrastructure to enter the HD arena.



*Bob Hwang,
President,
Samsung Techwin
Europe.*

Assa Abloy sells Car Lock business

Stockholm, Sweden

Assa Abloy has signed an agreement with Japanese Alpha Corporation to sell its Car Lock business. The acquisition will complement Alpha Corporation's existing automotive supply business, leading to synergy opportunities which are currently limited within the Assa Abloy Group.

The Car Lock business, which has its headquarters in Tyniste, Czech Republic, employs 450 people and has operations in Mexico, Germany, Switzerland and China. The business had a turnover of EUR 60 M in 2015.

Alpha Corporation is headquartered in Yokohama, Japan, and employs over 4,250 people. The

acquisition will expand its global footprint to a total of 19 sites across 11 countries.

“I find it very satisfying that in Alpha Corporation the Car Lock business gets a committed long-term owner that gives the business a new strategic home and creates opportunities for a continued good development”

said **Johan Molin**, President and CEO of Assa Abloy.

The transaction will have a positive effect on Assa Abloy's operating margin and be neutral to EPS.

The transaction is subject to regulatory approval and is expected to close during the second quarter of 2016.

Honeywell acquires RSI Video for \$123m

Morris Plains, NJ (USA) and Strasbourg, France

Honeywell has acquired privately held RSI Video Technologies (RSI), a leading global provider of intrusion detection systems for commercial and residential security applications under the brand Videofied, for approximately \$123 million (€113 million).

RSI's wireless battery-powered motion detectors with built-in cameras deliver live, high-quality video over the cloud to central

monitoring stations and end-users. The acquisition enhances Honeywell's ability to meet the increasing global customer need for video verification, and it also brings a unique do-it-yourself (DIY) offering combined with professional monitoring.

“RSI complements Honeywell's industry-leading security portfolio, and brings significant new technology and software that provides

added value to our security dealers and channel partners,” says **Alex Ismail**, president and CEO, Honeywell Automation and Control Solutions.

“The industry has been looking for ways to reduce the burden on local law enforcement resources responding to false alarms. RSI helps reduce false alarms by providing cost-effective indoor and outdoor video verification solutions to

dealers and central monitoring stations, states **David Paja**, president of Honeywell Security and Fire.

Founded in 2000 and based in Strasbourg, France, with key operations in Minnesota, RSI has one of the largest installed bases of video-verified alarm systems in the world, with more than 1 million installations in more than 60 countries. It has approximately 110 employees in France and the U.S.

Hikvision shows almost 50% growth

Hangzhou, China

Hikvision has released its latest annual figures which show that preliminary earnings for the full-year 2015 have resulted in revenues of US\$3.88 billion that amount to a 46.97% growth rate year on year.

Cynthia He, vice president at Hikvision, says there were a number of significant factors behind the company's sustained growth. “The security industry is continually developing and Hikvision is at

the forefront of that development,” she says. “Our ongoing investment into research and development is a crucial component of our growth. Each year Hikvision invests 7% to 8% of our sales revenue into R&D, focusing on product innovation and our comprehensive and industry-leading product development system.

“We have an ever-expanding network of domestic and international business contacts, which

allow us to keep in touch with the market and make decisions based on the practical requirements of customers worldwide. And our range of total solutions for vertical industries means we can cater to a huge variety of specialist applications.

“In 2016, Hikvision intends to continue with this impressive momentum, with an ongoing emphasis on developing new partnerships, further business ex-



pansion, and continuous product innovation.”

ADT Corp acquired for \$7 billion

Chicago, New York and Boca Raton, FL

ADT Corporation, has entered into a definitive agreement to be acquired totally for \$7 billion (\$42 per share) by an affiliate of certain funds managed by affiliates of Apollo Global Management, LLC and co-investors and merged with a subsidiary of Prime Security Services Borrower, LLC (with its subsidiaries, "Protection 1" acquired by Apollo in 2015), and the combined total of the merger is said to be valued at \$15 billion.

ADT Corporation is a leading provider of monitored security, interactive home and business automation and related monitoring services. Prime Security Services Borrower, LLC (with its subsidiaries, "Protection 1") is a full-service business and home security company in the United States, also owned by the Apollo Funds.

The purchase price – \$42.00 per share in cash – represents a premium of approximately 56% over ADT's closing share price on February 12, 2016 and, when combined with Protection 1,

represents an aggregate transaction value of approximately \$15 billion. The headquarters of the combined company will remain in Boca Raton, Florida, and the combined company will operate primarily under the ADT brand.

"This transaction represents a highly attractive premium for ADT's shareholders," said *Naren Gursahaney*, President and CEO of ADT. "We're proud to have strengthened the quality of our customer base, improved service and retention, and extended our leadership in innovative solutions such as our ADT Pulse platform and our new Security-as-a-Service offering, ADT Canopy. By combining Protection 1 with ADT, we will be better positioned to expand the breadth and depth of the services we offer to our customers throughout the United States and Canada."

"The combined company will be a market leader with a powerful brand and scale resulting in an enhanced overall customer

experience," said *Timothy J. Whall*, President and CEO of Protection 1, who will be the CEO of the combined business following the closing of the transaction. "In addition, Protection 1's robust commercial presence will speed ADT's expansion into the commercial sector supported by increasing commercial sales and technical skills across a well matched national footprint."

"We are tremendously excited by this unique opportunity to combine two premier businesses," said *Marc Becker*, Senior Partner at Apollo. "This transaction provides the opportunity to dramatically enhance our position in the large, fragmented and growing residential and business interactive electronic monitoring industry. Pro forma for the transaction, the newly created company will generate a combined \$318 million in recurring monthly revenue and total annual revenue in excess of \$4.2 billion, placing the businesses in a strong position to drive inno-

vation and to capitalize on growth opportunities in the future."

The Board of Directors of ADT unanimously approved the transaction. The acquisition of ADT is expected to be completed by June 2016. The transaction is subject to the conclusion of the applicable antitrust waiting periods in the United States and Canada, ADT stockholder approval and other customary closing conditions.

The merger agreement includes a "go-shop" period, during which ADT and its Board of Directors may actively solicit, receive, evaluate and potentially enter into negotiations with parties that offer alternative proposals during a 40-day period following the execution date of the definitive agreement. There can be no assurance that this process will result in a superior proposal. ADT does not intend to disclose developments about this process unless and until its Board has made a decision with respect to any potential superior proposal.

Sector Alarm acquires G4S Finland

Oslo, Norway

Sector Alarm is in the process of acquiring another company in the Finnish market – G4S. G4S is one of Finland's biggest security companies, with around 1,800 employees and revenues of 70 million euros. This is Sector Alarm's second company acquisition in Finland.

At the beginning of the year Sector Alarm took its first step into the Finnish market with the acquisition of Turvatiimi, Finland's fourth biggest provider of security services with more than 1,000

employees and revenues of 35 million euros.

– Our two acquisitions in Finland have come in quick succession, and this really is an indication of our ambition to continue to grow in the Nordic region and in due course in the rest of Europe. Two years ago we acquired G4S in Sweden, which made us one of the leading operators in the Swedish market. We now have the same ambition to create an equivalent position in the Finnish market," says *Jörgen*

Dahl, CEO at Sector Alarm.

Sector Alarm's strategy is to grow both organically and through acquisitions. Over the last four years they have acquired nine companies, eight of them based in the Nordic region. There is a strong desire and intention at Sector Alarm to play an active role in the consolidation of the Nordic security market. Each acquisition contributes to the creation of a solid platform for future synergies in each country.

It is expected that the formal

takeover of G4S will take place at the beginning of April following the approval by the Finnish Competition Authority.

The Sector Alarm Group was founded in 1995 and has its head office in Oslo. Sector Alarm is the second biggest operator in the field of private homes and small businesses in Europe, has leading positions in Norway, Sweden and Finland, and is the market leader in Ireland. Before the acquisition in Finland, Sector Alarm had around 420,000 clients.

Assa Abloy acquires US door company

Stockholm, Sweden

Assa Abloy has acquired Lighthouse, a sectional door and docking distributor in North Carolina, South Carolina, and Tennessee, USA.

"I am very pleased that Lighthouse is joining the Assa Abloy Group. I welcome this

addition that further reinforces the Assa Abloy Group's leadership in entrance automation, where our sales have grown from SEK 3 billion in 2008 to SEK 18 billion in 2015", says *Johan Molin*, President and CEO of Assa Abloy.

"Lighthouse is a strategic

step for us in the USA and we welcome the entire team to Assa Abloy Entrance Systems", says *Juan Vargues*, Executive Vice President of Assa Abloy and Head of Division Entrance Systems.

Lighthouse was established in 1994 and has some 150 employ-

ees. The company is headquartered in Charlotte, North Carolina.

Sales for 2016 are expected to reach USD 41 million (approx. SEK 350 million) with a good EBIT margin. The acquisition will be accretive to EPS from start.

UTC rejects Honeywell offer

Morris Plains, NJ and Farmington, Ct (USA)

In what appears to be a public sparring match between **Honeywell International** and United Technologies (UTC), both companies have released comments on a meeting that was held on the 19th February 2016 during which Honeywell presented an offer proposal to UTC.

The public battle began with Honeywell releasing details of the \$90.7B acquisition proposal; this was soon followed with rejection comments from UTC later the same day. The official proposal took the form of a presentation that Honeywell Chairman and CEO, *Dave Cote*, shared with United Technologies Chairman, *Edward A. Kangas*, and United Technologies CEO, *Gregory J. Hayes*.

The Honeywell, so called, "Unique and compelling opportunity for shareholders" cited that the benefits of the combination would

produce a global leader in attractive end markets tied to advantaged secular growth themes. The proposal maintains that the merger would offer customers world-class technology and software platforms with a combined R&D capacity of over \$8B to invest and substantial operating benefits and cost synergy potential estimated at \$3.5B.

The UTC decision to reject the offer is based strongly around regulatory challenges and implies that Honeywell and its advisors are not taking these challenges seriously. The UTC Regulatory Position statement confirms these views. "Honeywell simply believes it is in its interests to gloss over these fundamental transaction risks in connection with pursuing this opportunistic approach."

UTC, CEO Gregory J. Hayes adds, "United Technologies re-

mains firm in its belief that any combination with Honeywell would encounter insurmountable regulatory challenges in the U.S., EU, China, Brazil, Canada and other markets."

Hayes continues with further comments about his concerns. "There is a high likelihood that the deal could fail and the prolonged review process would have a material negative impact on UTC's operations, customer relationships and talent retention. It is important to note that after the deal between Honeywell and GE was rejected in 2001 by the European Commission, Honeywell's stock price fell 38% over the 2000 to 2005 timeframe. In light of this, it would be irresponsible for UTC to move forward with this proposed combination."

In addition to the potential

merger facing regulatory problems Hayes also highlights

the view that the offer bid is much too low. "Notwithstanding the significant regulatory challenges and customer concerns, Honeywell's proposal grossly undervalues UTC and overstates potential synergies. Effectively Honeywell's proposal is a leveraged buyout of UTC using UTC's own strong balance sheet."

It seems that although the offer has been rejected there is still momentum in this deal and that tensions are mounting to produce results.



Gregory Hayes – CEO of UTC.

Euralarm manifesto for a more secure Europe

Brussels, Belgium

Euralarm, the association of European manufacturers, installers and service providers of the electronic fire safety and security industry, is presenting its Manifesto for a Safer and More Secure Europe, 2016–2019.

Euralarm's Manifesto for a Safer and More Secure Europe at the horizon of 2019, presents the electronic fire, safety and security industry's view on six policy areas where the European Union's Institutions should take action in the coming years to ensure that firstly

EU citizens are safer and live in a secure society and secondly, that the marketplace is efficient and dynamic.

Euralarm will be an engaged and constructive partner for the EU Institutions, helping policy-makers to craft the legislation that meet these societal and economic objectives as well as to shape an open, efficient and dynamic marketplace for the electronic fire, safety and security industry in the EU; a market growing by 11% over the next five years according

to an EU Commission' recent report.

The six policy areas include; a market-driven standards system that works for consumers and the industry; a single market approach to testing, auditing and certification in the fire safety and security industry; improving fire safety in tourist accommodation to prevent unnecessary deaths and injuries; a Europe-wide system to recognise skills and qualifications; a single market for the provision of services for fire safety and security systems;

and 'Smart cities' that include aspects of fire safety and security.

For each area Euralarm offers its support to the EU Institutions. This newest publication is another Euralarm initiative that backs the EU goals of boosting employment, growth and investment, and strengthening and deepening the Single Market. With the right political, legislative and regulatory environment, the fire safety and security industry can play an important role in achieving these goals.

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IFSEC is ready to deal with security issues in London

IFSEC International will be held on 21–23 June 2016 at Excel London. Visitors from all over the world will gather to explore the latest innovations and hear from the best in the industry, all under one roof over three days.

Since last year's event in London, security concerns are clearly on the rise. The recent terrorist attacks in Paris and Brussels, and the intensive flow of refugees in Europe are all subjects for increasing investments in security systems. For the second year the fire and safety exhibition FIREX International will sit alongside the security exhibition IFSEC International at London's Excel. With the two industries increasingly becoming more aligned, placing them side by side makes it easier and quicker for visitors to obtain the information, resources and products they are looking for when they visit.

IFSEC International will host over 600 global leading suppliers under one roof across the three days at London's Excel this summer, with the likes of Tyco, Milestone, UTC, Texcom, Salto, Paxton, Hikvision, Dahua, Assa

Abloy, Axis, Canon, CAME and Marshalls to name a few already confirmed. In 2016 the show will welcome more than 65 new exhibitors to the show and architects of the thoughtful home, Nest Labs, Inc to FIREX International along with AICO, Komtes, Rockwool, Legrand Electrical and Lehavot Advanced Fire Protection.

With a huge global reach, IFSEC International annually hosts every major territory active in security and fire safety. In 2015 the show welcomed the first ever South African pavilion which returns in 2016 on an even larger scale. The show has also seen steady growth from European exhibitors particularly from Germany and France as London is seen as a gateway destination to the European market. For example IFSEC International 2016 will welcome Tecnoalarm, ARH zrt, DEA Security and Digi-



IFSEC International will be held on 21–23 June 2016 at Excel London.

con SA who are all new international exhibitors to this show.

Along with some new and enhanced feature areas (like The Smart Zone and The Perimeter Security Zone) and new partnerships at IFSEC International in 2016, four additional show areas will return and cover vital industry sectors including Integrated Security Systems, Video Surveillance & Intruder Alarms, Access Control and IT & Cyber Security.

Furthermore IFSEC and FIREX

International will host a fully comprehensive free educational programme that will include seminars, workshops and keynote addresses covering topics such as counter terror, applications of technology across integrated security, IP security, smart buildings, access control and biometrics, video surveillance and physical perimeter security.

IFSEC is Europe's largest yearly organised security event. The organiser expects approximately 27 000 visitors to attend, just like 2015.

IFSEC launches the Smart Zone

At IFSEC International in London, taking place at Excel from 21–23 June, the development toward smart buildings and smart cities will be in focus through the introduction of the Smart Zone.

With the rise of the Internet of Things (IoT) and Smart Buildings, traditional fire and security systems are rapidly evolving. Systems within buildings and cities are now able to communicate without human intervention; this presents both opportunities and risks for the fire and security industries. Smart Buildings can hear, watch, breathe, respond and collect millions of pieces of data collected from IoT. The data collected is vital in the management and sustainable output of the building in question, helping to reduce costs and more importantly, increase efficiency. It doesn't just stop at buildings either. On a macro scale, the data outputs of Smart Buildings can be aggregated onto a

city level where networked systems can provide critical intelligence for sustainable transport, public utilities and emergency services, in turn, creating a Smart City.

Smart buildings & home automation

At the 2016 IFSEC International a dedicated IFSEC Smart Zone will be launched, encompassing the latest suppliers for the smart building and home automation sector along with a dedicated educational theatre, tackling key topics within this burgeoning sector.

IFSEC International 2016 will be a strategically significant platform to present current technologies and research to the market as security systems and fire safety

services play an increasingly vital role in building automation.

Test and trial the latest technology

The IFSEC Smart Zone will host a dedicated Home Automation Zone where visitors will be able to test and trial the latest technology, speak to the experts within this field and source the right solution for their business, within the industry already involved include Honeywell Building Solutions, Control4, Habitech, CIE-Group, to name a few and the whole zone will be supported by KNX UK.

In addition to the Home Automation Zone the IFSEC Smart Zone will host the Smart Zone Theatre, which will provide free learning and development seminars focused on home automation and smart buildings. The programme will be delivered by a range of leading experts and will

concentrate on key areas such as the Internet of Things, systems integration, business intelligence, building information management, cyber security along with a series of relevant case studies.

"With a focus on new industry trends and innovations, IFSEC International provides a great opportunity to showcase Honeywell's latest technology and integrated security portfolio to an international multi-industry audience. With security evolving into smart building space, and integration becoming a driver for business efficiencies, Honeywell Building Solutions is delighted to be working with platforms like IFSEC International to connect to the right opportunities and publics," comments Peter Selby, Regional General Manager Honeywell Building Solutions, UK and the Nordics, who will be exhibiting within the IFSEC Smart Zone.

The Physical Perimeter Security Zone

At IFSEC International 2016, from 21st to the 23rd of June, an enhanced 1,000 square metre area dedicated to perimeter security, will be one of the high-lights of the show.

IFSEC 2015 attracted more than 27,000 visitors. Of those, 5,200 visitors, expressed a specific interest in physical perimeter security. It is no surprise. The interest for perimeter security is on the rise, and lately also boosted by terrorist threats and the increasing numbers of refugees in Europe. The Physical Perimeter Security Zone one will now offer much more space to specialist manufacturers to fully display and demonstrate their products with all aspects of the sector covered including barriers, acoustic barriers, boom barriers, height restrictors, high security street furniture, blast protection, perimeter

detection, blast walls, perimeter structures, bollards, protective bunkers, fencing, roadblockers, gate automation and turnstiles.

Confirmed suppliers within the Physical Perimeter Security Zone include the UK's premier supplier of automatic gates, parking barriers, retractable turnstiles and tubular motors, CAME UK along with sister company BPT to the zone along with Marshalls PLC, Birmingham Barbed Tape, Blok n Mesh, DEA System, Engtex, Gilgen Doors, GM Techtronics, Kijlstra Precast, LPCB, Nitesite, Robust UK, Townscape Products, to name a few.

Visit Detektor at IFSEC



AR Media International is exhibiting at IFSEC for the 25th year in a row.

Detektor and its publishing house, AR Media International, will be exhibiting at IFSEC as usual.

"We have been exhibiting at IFSEC every year since 1992 and I am looking forward very much to being there again", says Lennart Alexandrie," the CEO of AR Media International. At the stand (C926) AR Media International will display their online trade publications, such as SecurityWorldHotel.com and SecurityUser.com, and will also distribute their printed magazines for the EMEA and the Scandinavian market.

"IFSEC is a very important

event for everyone working on the international security market. There is probably no other physical place that we meet so many of our readers and online media users in the world. And that's the greatest part of the fun".

Apart from promoting their publications AR Media will also make sure the visitors to their stand will get to know about their security events in Scandinavia 2016, Sectech in Copenhagen, to be held in November, and Skydd in Stockholm, to be held in October. "We are certain to be busy all three days", concludes Lennart Alexandrie.

Sicur attracted more than 40 000 visitors

The Spanish security event, Sicur, was held between 23–26 February at the Feria de Madrid. According to the organisers Ifema, the event registered 42,294 professional visitors from 76 countries, reflecting 8% more than at Sicur 2014.

This year's edition also featured more products, showcasing the latest security solutions from 1,350 companies, with direct participation by 572 exhibitors, up 14% on last year.

Sicur's ability to attract domestic visitors has also been notable. All Spanish Autonomous Communities and Cities were represented and 51.7% of

the attending professionals were from outside Madrid. Attendance was particularly strong from Catalonia, Andalusia, the Valencian Community and the Basque Country. Meanwhile, international attendance was 8% of the total, with the biggest share going to Portugal, followed by the Latin American countries.



Alex Sosa and Noemi Farrarons from Barcelona-based JR Sistemas displayed alarm and video verification products.



Luis Angulo CCO from KBC Network enjoyed visiting Ar Media stand at the Sicur show.



Manager Francisco Fuster from the Spanish perimeter intrusion company Bunker Seguridad and his team enjoyed the Sicur together with their business partner Mike Burgess from Takex.



Sicur was held between 23–26 February at the Feria de Madrid.



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Venue: MTP
Organiser: Poznań International Fair Ltd
Tel: +48 61869 23 40
Email: joanna.jasinska@mtp.pl
Website: www.securex.pl/en

May

16-18 May Saudi Safety & Security – Dammam, Saudi Arabia

Venue: Dhahran International Exhibitions Center
Organiser: BME Global Ltd
Tel: +44 203 463 1097
Email: mostapha@bme-global.com
Website: www.bmesecurity.com

17-20 May ISSE 2016 – Moscow, Russia

Venue: VDNH
Organiser: ISSE
Tel: +7 495 607 06 72
Email: edrenkin@isse-russia.ru
Website: www.isse-russia.ru/en/

24-26 May Securex – Johannesburg, South Africa

Venue: Gallagher Convention Centre
Organiser: Montgomery
Email: joshual@specialised.com
Website: www.securex.co.za

25-26 May Security Forum – Barcelona, Spain

Venue: Centro de Convenciones Int. de Barcelona
Organiser: Peldaño
Tel: +34 91 476 80 00
Fax: +34 91 476 60 57
Email: info@securityforum.es
Website: www.securityforum.es

26-28 May Seguritec Peru – Lima, Peru

Venue: Centro de Exposiciones Jockey Santiago de Surco
Organiser: Thais
Tel: +51 1201 7820
Email: thais@thaiscorporation.com
Website: www.thaiscorp.com/seguritec/ingles

June

31 May – 2 June Eliaden 2016 – Lillestrøm, Norway

Venue: Norges Varemesse
Organiser: Eliaden
Tel: +47 23 08 77 00
Fax: +47 22 56 82 12
Email: post@eliaden.no
Website: www.eliaden.no

13-15 June CSPE 2016 – Guangzhou, China

Venue: Guangzhou Pazhou Poly World Trade Center Expo
Organiser: Guangzhou ESH Safety Technology Co., Ltd.
Tel: +86 20 3902 9096
Fax: +86 20 85640459
Email: davidleelion@cish.cc
Website: www.cish.cc

13-15 June CFE2016 Expo – Guangzhou, China

Venue: Guangzhou Pazhou Poly World Trade Center Expo
Organiser: Guangzhou Lisheng Exhibition Co., Ltd
Tel: +86 15820207894
Email: stevenleefire@126.com
Website: www.cfe.cn.com

16-17 June NFSD Nordic Fire & Safety Days – Copenhagen, Denmark

Venue: Aalborg Universitet Copenhagen
Organiser: SP Sveriges Tekniska Forskningsinstitut
Tel: +46-105165117
Email: nfsd@sp.se
Website: www.conferencemanager.dk/NFSD2016

21-23 June Ifsec – London, United Kingdom

Venue: Excel Exhibition ground
Organiser: UBM
Tel: +44 20 7921 5000
Email: info@ubm.com
Website: www.ifsec.co.uk

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July

6-7 July Sicherheits EXPO – München, Germany

Venue: MOC München
Organiser: NETCOMM GmbH
Tel: +49 (0)89-88 94 93 70
Fax: +49 (0)89-88 94 93 79
Email: info@SicherheitsExpo.de
Website: www.sicherheitsexpo.de

12-14 July Secprotec East Africa – Nairobi, Kenya

Venue: KICC
Organiser: Planetfair GmbH + Co. KG
Tel: +49 40 710070-51
Fax: +49 40 710070-59
Email: secprotec@planetfair.de
Website: www.secproteceastafrica.com

September

5-7 September OFSEC 2016 – Muscat, Oman

Venue: Oman International Exhibition Centre, Seeb
Organiser: Muscat Expo
Tel: +968 24 788 476
Fax: +968 24 788 676
Email: sales@muscat-expo.com
Website: www.muscat-expo.com/ofsec

20-24 September Prague Fire & Security Days 2016. – Prague, Czech Republic

Venue: PVA Expo
Organiser: Mascotte Ltd.
Tel: +420 777 700 205
Email: a.benes@mascotte.cz
Website: www.fsdays.cz

21-23 September Secure World – Astana, Kazakhstan

Venue: Krome
Organiser: Central Asia Trade Exhibitions
Tel: +7 727 266 36 80
Fax: +7 727 266 36 84
Email: info@secureworld.kz
Website: www.industryplatform.kz

27-29 September Security Asia – Karachi, Pakistan

Venue: Karachi Expo Centre
Organiser: Security Asia Secretariat
Tel: (9221) 111222444
Fax: (9221) 3563 6330, 34860830
Email: info@securityasia.com.pk
Website: www.securityasia.com.pk

27-30 September Security Essen – Essen, Germany

Venue: Essen fair venue
Organiser: Messe Essen
Tel: +49 (0)201 72 44-528
Email: franziska.goldammer@messe-essen.de
Website: www.security-essen.de/impetus_provider/

Visit AR Media at Security Essen

29 September – 02 Oktober ISAF Safety & Health – Istanbul, Turkey

Venue: Istanbul Expo Center
Organiser: Marmara Fair
Tel: +90 212 503 32 32
Fax: +90 212 503 32 31
Email: marmara@marmarafuar.com.tr

October

18-21 October Interpolitex 2016 – Moscow, Russia

Venue: Exhibition Center, Pavilion 75
Organiser: Interpolitex
Tel: +7 (495) 663-67-12
Email: nataliagsigma@gmail.com
Website: www.interpolitex.ru/en/

21-22 October NEFSEC 2016 – Colombo, Sri Lanka

Venue: Pico, Sri Lanka Exhibition
Organiser: Nexgenex Exhibition
Tel: 91-11-41536990
Fax: 91-11-45636990
Email: ashish@nexgenexhibitions.com
Website: www.nefsec.in/

25-27 October SKYDD – Stockholm, Sweden

Venue: Stockholmsmässan
Organiser: Stockholmsmässan
Tel: 08 749 41 00
Fax: 08 99 20 44
Email: info@stockholmsmassan.se
Website: www.skydd.net
Visit AR Media at SKYDD

November

7-9 November Expoprotection – Paris, France

Venue: Paris Porte de Versailles - Pavillon 1
Organiser: Reed Expositions France
Tel: +33 (0)1 47 56 50 45
Email: www.expoprotection.com/

8-10 November Securexpo – Nairobi, Kenya

Venue: Visa Oshwal Centre
Organiser: Montex
Tel: +44 (0) 20 7886 3048
Email: kieran.oliver@montex.co.uk
Website: www.securexpoeastafrica.com

Detektor International takes no responsibility for any changes to the details of the above mentioned events. Please always contact the organisers in each case to confirm the dates and venues.

www.securityworldhotel.com/int/Security-Events

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