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March 2013

VIDEO SURVEILLANCE Trends & Technologies

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In Focus: Video Standards

How the continued push for interoperability is changing the face of the security industry

ALSO: Success Story

Interoperable products the foundation of casino's surveillance *page 8*

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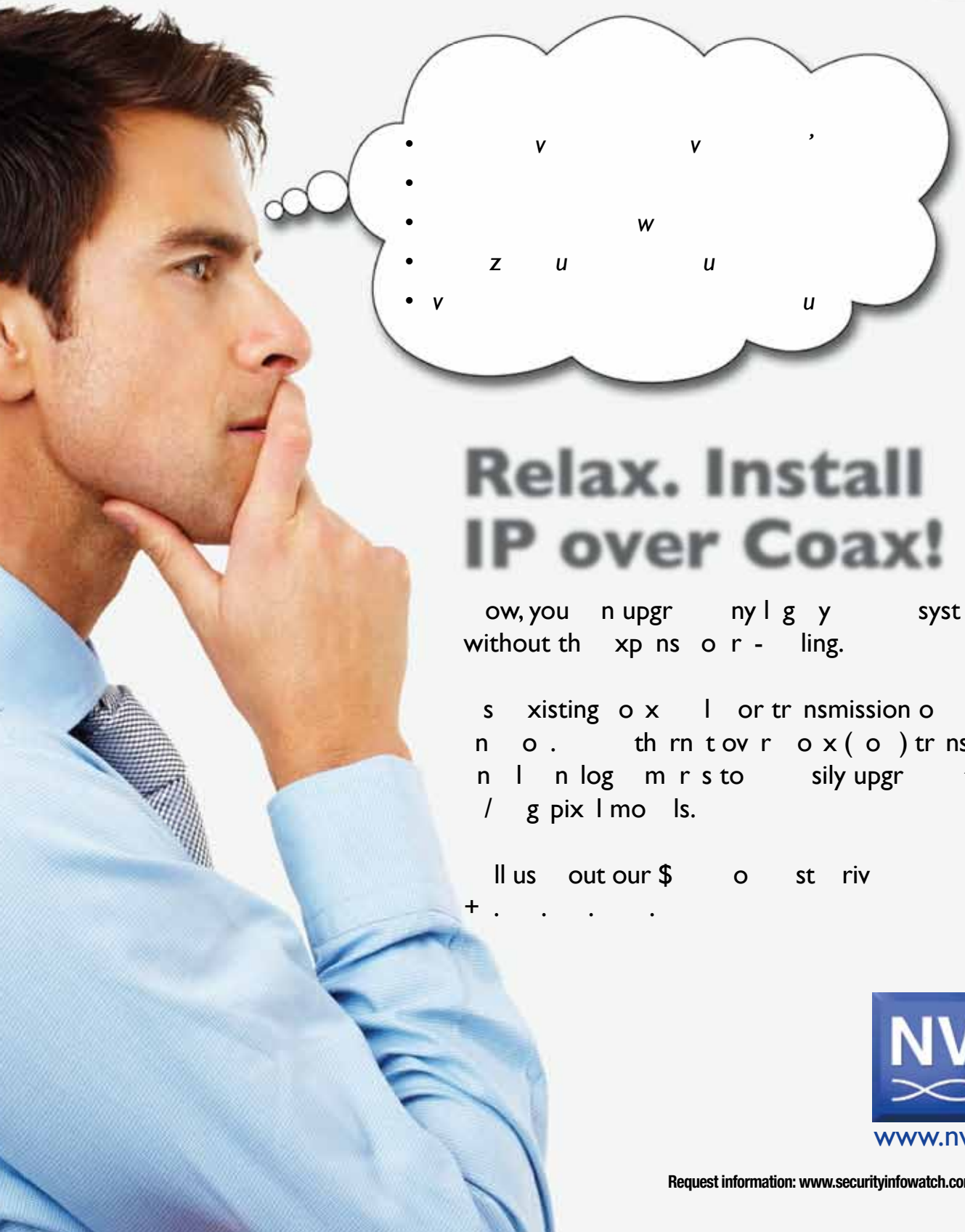

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IN FOCUS: VIDEO STANDARDS

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By Per Björkdahl

Standardization Proving its Value

A look at the meteoric four-year rise of the ONVIF interoperability specification and where it's headed in 2013 and beyond

Few would argue that as the industry continues its progression to widespread deployment of IP security technology, some type of standards are necessary to guide the industry in a unified direction. Over the past few years, ONVIF has been one of the organizations at the forefront of the standards movement.

Since its inception in 2008, the organization has made considerable gains with more than 2,500 products now certified as conformant with the ONVIF interoperability specification. When we first started this initiative on behalf of a handful of companies, the industry was beginning the transition to IP, and that, of course, has had a huge impact on our efforts. Now, the industry is moving more rapidly toward standardization as it looks to take advantage of the opportunity to integrate with the multitude of new products coming on the market.

The industry participation that ONVIF has achieved speaks for itself. ONVIF now has more than 400 members. More importantly, we are reaching a critical mass of representation from smaller firms to contribute to the work going forward and to implement the interface to their products. Comparisons with other groups such as PSIA are difficult because our approach is different. ONVIF excels with its web services and strong legal framework as well as its decision to establish an underlying specification and then tackle each discipline, such as video or access control or intrusion, individually.

By their very nature, standards specify minimum operation requirements so the conforming devices can guarantee interoperability at the most fundamental level. As more functions are considered "basic," ONVIF will evolve to include interface specifications for these functions. And as manufacturers innovate and add special features, we'll continue to explore those areas to add the specification.

Educating the Industry

One of ONVIF's focuses is to ensure that systems integrators and end-users get to know the benefits of our standards, and that we are able to demonstrate that they have a wide variety of products from which to choose. This freedom of choice to select the best and most appropriate camera, encoder, DVR or NVR, and ensure that future additions to a video system will continue to be compatible with existing equipment, is one of the benefits of standardization.

ONVIF also has launched some training initiatives specifically for end-users, integrators and consultants, ranging from online webinars to third-party training sessions at various industry trade shows.

Another ONVIF push is our Profile S for video streaming to simplify and improve the conformance process. The primary benefit is knowing that when two products bear the Profile S mark, they will work together. Rather than trying to figure out whether one version of the ONVIF specification is compatible with another, or which features of the product might interfere with interoperability, seeing the mark ensures a successful interface. This will be true going forward with our subsequent profile releases, such as Profile G for recording and storage products and Profile C for physical access control and video integration.

Member feedback is critical, and ONVIF hosts several events each year to solicit it, whether it is at developer's plug fests held to test interoperability among products or at public interoperability displays at trade shows through panel discussions and open dialogues about standards — allowing us to hear first-hand feedback from users, specifiers and member companies. We also reach out through questionnaires and webinars and count on project engineers from our member companies to provide feedback from their own customers on how the specification is working with selected products or in different scenarios.

Looking to the Future

Although standardization is typically a more gradual, evolutionary process, ONVIF has grown in size and strength quite rapidly over these first four years. Not surprisingly, this has resulted in some growing pains between the market's expectations for the specification and the technical limitations for standards based on the current maturity level of IP technology. With that in mind, the next few years will be focused not only on moving forward into new technical areas, but we will also concentrate on refining the overall process of standardization. A strong focus on the conformance process will ensure the quality of the specification and its continuing acceptance in the market.

From the beginning, ONVIF's focus was video, but we have also recognized from the start the need for specifications in other industry segments. After the release of the access control specification and test tools this year, ONVIF's next area of concentration could include new advances in physical access control or intruder alarms — both of which seem to be the next natural step — but our members will decide the course. ▮

Per Björkdahl is Chairman of the Steering Committee of ONVIF. For more information, please visit www.onvif.org.

By David Bunzel

Enhancing and Expanding the Security Ecosystem

An update on the progress of the Physical Security Interoperability Alliance

If consumers had to use software development kits (SDK) to connect HD televisions to cable boxes; design application programming interfaces (API) so their smartphone could send a photo to an inkjet printer; and write unique scripts to visit websites, it's a good bet these devices and systems would be much more expensive, much less common and not as incredibly feature-filled as they are today.

But home electronic, computing, and mobile devices are reasonably affordable, ubiquitous, and powerful because each follows at least one common standard, such as "jpeg" for graphics, so a simple wireless printer can routinely accept and print a smart phone-snapped photo that also can be displayed on a big screen TV.

That same ubiquity, affordability and power is what the Physical Security Interoperability Alliance (PSIA) has been creating in the security industry. Our goal has been plug-and-play compatibility for the ecosystem of security products, and, increasingly, beyond our industry to complementary systems and technology.

Here's an overview of where the PSIA is today on the path to security industry plug and play.

Specifications for an Ecosystem

We now have seven specifications that focus on enabling security systems to share information and intelligence, instead of simply connecting devices. The PSIA specifications encompass five functional areas: video, video analytics, video recording and storage, access control and intrusion detection.

We have been able to take our broad, systems-level approach to specifications because our members span a range of security industry domains. Working Group members include Assa Abloy, Cisco, HID, HikVision, Honeywell, Ingersoll Rand, Inovonics, IQinVision, Lenel, Kastle Systems, Milestone Systems, NICE Systems, ObjectVideo, OnSSI, Proximex, SCCG, Tyco International, UTC, Verint, and VidSys.

Building Profiles: This month, our Profiles Working Group, led by Kastle Systems, will be releasing our first in a series of Profiles, which will help manufacturers to more quickly adopt PSIA specifications. The Profiles identify the data elements within our broad specifications that apply to particular security functions, akin to having a library of books from which you would select only the specific books you needed to provide the knowledge for a given topic.

Instead of implementing all the data elements in the PSIA's broad Area Control Specification, an access control system vendor can comply with the Access Control Profile criteria. Similarly, an intrusion detection sensor manufacturer can adopt the Intrusion Profile. Each of these Profiles is drawn from the more comprehensive Area Control Specification.

Further, we have introduced test tools which enable manufacturers to validate their Profile adoption and ensure their products will interoperate with other PSIA-compliant products and systems. We expect to release more Profiles in 2013.

Building automation: During our interoperability demonstration at ASIS 2012, a building automation system and an enterprise management system exchanged data using the PSIA's Area Control Specification. In addition, our Area Control Working Group is meeting with building automation, HVAC, and elevator systems vendors to decide what types of information and intelligence to exchange among these systems and expand the specification accordingly.

Wireless: Several of our members are working to incorporate PSIA specifications into mobile devices, including tablets based on the iOS and Android platforms. This functionality would enable users to put PSIA-compliant control software, which would serve as a host, on their tablets.

Backward compatibility: The goal of the PSIA is to ensure specification upgrades and new releases are backward-compatible with previous versions. Our working group membership rigorously tests each of our specifications, so upgrades are just that: enhancements, not rewrites. That makes it easier to ensure an IP camera compliant with our original IP Media Device (IPMD) Specification will also be compliant with Version 2.0 and other updates. The same is true for our other specifications. Backward compatibility is another way the PSIA helps end-users to protect their security equipment investments.

Meeting the industry's needs

In short, during the last four years, the PSIA has created specifications that reflect what a wide variety of end-users, consultants, integrators and manufacturers have determined they need for powerful security solutions that are also cost effective to design, install, operate and maintain. We look forward to another solid year of growth and innovation as PSIA specifications make it possible for true plug-and-play interoperability across the security ecosystem. ▮

David Bunzel is the Executive Director of the PSIA (www.psialliance.org). He is also the founder and managing director of Santa Clara Consulting Group (SCCG), a market research and consulting firm.

IP Surveillance 'Forges' ahead for Casino Resort

Video technology — including standards-compliant equipment — helps the monitoring effort at Pennsylvania's Valley Forge Resort

It took just 22 minutes for the new IP video surveillance system at Valley Forge Casino Resort to demonstrate its value. The casino had just opened in March 2012 when an attentive surveillance operator identified a group of roulette cheaters — several agents working in tandem — from the clear images captured by the casino's IP surveillance system. A message from a nearby casino had alerted Valley Forge Casino to be on the lookout for the cheaters, and the employee spotted them on video less than half an hour after the casino opened. He had trained for eight weeks but had never worked in surveillance before.

Since that day, the video system — installed by North American Video (NAV) — has continued to provide value both on the gaming floor and throughout the facility located near the city of Philadelphia. "There is a human factor involved in creating a safe environment, and the tools and technology NAV has brought in give us a fantastic ability to protect our guests," says Jesse Silva, Valley Forge's Director of Surveillance. "We minimize every threat we can think of by using our video surveillance system to the fullest. It has provided the situational awareness we need to ensure a very low number of incidents in the first few months, and no major incidents so far related to guest safety."

Standards-Based Surveillance Integrated with Access, POS

Valley Forge was constructed on the existing site of the Valley Forge (Pa.) Convention Center, with the convention center's top level now used as the casino. The $132.5 million resort features 600 slot machines and 50 table games, including blackjack, craps, roulette and others. The resort also includes live entertainment, eight restaurants, shopping and nightlife. In all, there are more than 100,000 square feet of meeting, convention and exhibit space. The adjacent Casino Tower and Radisson Hotel has 486 hotel rooms and suites.

The IP video system uses a redundant HP network with PoE and ONVIF-compliant equipment provided by Pelco, including the Endura recording system, Sarix fixed cameras and Spectra IV pan-tilt-zoom (PTZ) cameras — a total of 418 cameras in all when the casino opened. Additional cameras have been added since the opening to bring the total number to nearly 500. The system is integrated with a Software House access control system and a point-of-sale (POS) system from EConnect. NAV was chosen to supply the system based on a competitive bid.

"The network designed at Valley Forge Casino is extremely sophisticated and robust, which in turn will allow them room for future IP growth and expansion," says NAV's Laurie Jackson, Vice President of Gaming

Sales. "By integrating the access control, POS and video surveillance systems into an easy-to-manage overall system, casino management has a more complete picture."

Inside the Surveillance Operation

The casino surveillance department's 20 operators watch table game action, cage transactions, ingress and egress of patrons, food and beverage locations, point-of-sale transactions, and general movement of employees in the back of the house. There are six surveillance workstations in all — two workstations in the security department, one in the administrative office, one in dispatch — each with a supervisor, and a separate on-site workstation used by the Pennsylvania Gaming Control Board.

Indoors, PTZ cameras can zoom in far enough to be able to read the serial numbers on a dollar bill or the time on someone's watch. Each blackjack table has a fixed overhead camera, and a PTZ camera is located between each pair of blackjack tables to cover both as needed. The other gaming tables are each monitored by multiple cameras. In the slots areas, cameras watch general movement and hone in on anything out of the ordinary.

Video keeps watch over gaming action on the casino floor as well as all back-of-the-house areas, including connecting hallways for the casino and cash handing areas. All gaming cameras are set at 30 frames-per-second (fps), while some non-regulated back-of-the-house applications, such as hallways or door views, use 15 fps.

Surveillance operators have access to all cameras, and a separate security department has access to cameras not monitoring the gaming floor. Security's responsibility is to patrol the entire property and the department uses the system to view cameras throughout the premises.

The resolution of the IP cameras is an improvement over analog, and Valley Forge is in the process of evaluating high-definition (HD) cameras to place strategically around the property. The first group of IP cameras was initially installed in the interest of keeping costs down. The network infrastructure could support as many as 1,000 cameras, although fewer will likely be needed as higher-resolution cameras are implemented.

Video views of any gaming tables are retained for seven days; and video covering cash-related transactions and access points to the casino is held for 30 days. There is plenty of RAID 5 system storage to meet the gaming commission's requirement of a 25 percent buffer margin of additional video archiving.

Outdoor Surveillance

Outside the building, exterior cameras mounted at various levels of nearby rooftops keep watch on the parking lot areas that surround the property, providing views to ensure guest safety and deal with issues in the parking lot

such as accidents, animals or children left in vehicles, etc. Cameras are mounted on the roof of the convention center, on an attached office building, and on the adjoining Radisson Hotel and Valley Forge Casino Tower.

The 22x optical zoom on the Spectra IV camera enables operators to zoom in for clear images of vehicle license plates and activities in the parking lot, which accommodates 2,800 vehicles and has free valet parking every day. The cameras' ability to "learn" a required position enables operators to direct the PTZ camera to an exact view he or she requires, and the camera can mimic the movement precisely, right down to the iris control and fine focus. Up to 99 camera positions can be stored as presets, and the operator can return to any of the positions by pressing two keys.

Endura's Linux-based software system offers unicast and multi-cast options to enable camera feeds to be multiplied for recording and live viewing on several components.

Systems Integration

NAV technicians and project leaders provided a deep understanding of the Pelco system during the installation, managing issues related to how the components communicate and interact with the network front-end. "The system has a workthrough for anything we want to do," Silva says. "NAV's knowledge also helped to guide casino personnel during troubleshooting after the system was installed. In general, troubleshooting is easier with IP systems because software pathways enable one to check at any point on the network to see if a signal is passing through." Silva adds that dealing with the integrator for ongo-

ing service or equipment needs has been an "incredibly simple process."

The Software House access control system covers all perimeter doors of the casino — about 20 in all — including those that usually remain closed. Integration provides camera views when access doors are opened, and alarms alert operators if a door is opened that should remain closed.

Access to the financial area (main cage and soft count area) involves a mantrap, so both doors cannot be opened at the same time. One door is controlled by surveillance; the other is controlled by an Aiphone video phone mounted on the wall to enable employees to grant access to any co-workers they recognize.

Integration with the E>Connect POS system transforms each line of point-of-sale transaction data into a hyperlink to related video of that exact second in time, which is "digitally married" to the POS system. If an operator clicks on the word "soda," for example, the system goes immediately to video of that transaction.

Since state law requires all players to be guests of the resort (they may be staying there or simply have spent at least $10 in the resort), customer access to the casino floor is controlled. This is managed by 11 optical turnstiles/stantions that allow entry to the casino based on a required "daily access pass." Inexpensive memberships for several months are available, which enables surveillance to identify any member who enters the casino, and a fixed camera provides a clear face shot as they walk through.

System Demonstrates Value

Beginning with the incident involving roulette cheaters on opening day, the IP surveillance system has proven its value at Valley Forge Casino Resort. The system was also useful to investigate a case of employee theft, and evidence was retrieved from the 30-day pool of archived video to highlight activity over an extended period of time. The Pelco interface for "storyboarding" enables clips of video from various cameras to be connected together to tell a story — a function that helped in the prosecution of the thieving employee.

Valley Forge has a Category 3 license from the Pennsylvania Gaming Control Board. Although the size of the casino is currently "locked in," pending state legislation could possibly change the rules on limits to the number of table games and slots allowed. Theoretically, the lower level of the convention center facility, still currently used for meeting space, could also be converted to casino space. Silva said he would use NAV for any future expansion. "I would go nowhere else," he says. ▮

RESOURCES

Request more info on the companies in this article

Aiphone: *www.securityinfowatch.com/10212724*
North American Video.: *www.securityinfowatch.com/10214515*
Pelco by Schneider Electric: *www.securityinfowatch.com/10214619*

By Bill Bozeman

Video Standards' Impact on Security Integrators

How ONVIF and PSIA are changing the face of the industry

As discussions have increased regarding PSIA and ONVIF, we at PSA Security Network thought it was the right time to discuss video surveillance standards and their impact on the security industry.

Here's perspective from a series of one-on-one interviews I conducted with security integrators Chris Peckham of Kratos|HBE; Nigel Waterton of ASG, Ron Oetjen of Intelligent Access Systems of North Carolina; and Wayne Smith of Tech Systems Inc.:

What are your thoughts regarding video surveillance standards as they pertain to the physical security industry and its integrators?

Oetjen: "I am very much in favor of video standards. I think that's one of the challenges with this industry because we have a bunch of people doing things in many different ways. Standards make it easier for the integrator; it also helps the progress of the industry because you have people working along the same standards line."

Waterton: "We are doing everything possible to advance and encourage standards at the product, process and service level. The role of standards is to provide a framework for innovation by securing the core pillars of the ecosystem: it provides consistency for manufacturers and integrators, creates end user confidence in products, systems, processes and services, and, finally, allows all products to be supplied and used across different markets, enhancing market access opportunities."

If we were to move to a set of video surveillance standards, what benefits would implementing these standards have on you as an integrator, as well as on your company as a whole?

Peckham: "The integration side would benefit, if the interoperability is there. If somebody has the seal that says it meets those standards, and works as the standards says it's supposed to work, then you have some understanding that the staff is going to be able to do what they need to do in a shorter amount of time."

Smith: "The whole industry benefits from these standards, including the integrator, end-user and manufacturer. There are a number of benefits from standardizations, including the interoperability. End-users are not locked into a proprietary format with a particular manufacturer. From an integrator's standpoint, there's an argument to be made that it's less costly to integrate. The industry as a whole benefits, as it gives flexibility to all parties involved."

What do you perceive as the difference between ONVIF and PSIA, and which standard do you believe is more beneficial in the long run?

Smith: "ONVIF is more focused on video standards, while PSIA is trying to set standards for all security products. The problem is they will eventually have to merge or come up with a common format. Even though they currently don't compete, the lack of one standard impedes the advancement. If the industry as a whole is going to move forward, they need to take the best of both and come up with one universal standard."

Peckham: "They are approaching it from a different standpoint. ONVIF is more on the video side, while PSIA is more on the systematic approach to everything. I think that there's room for both of them, there doesn't necessarily have to be one per se."

Nigel Waterton is vice president, Strategic Development at ASG. His key responsibility is to align the security roadmap for ASG's clients with the capabilities of ASG's professional services, engineering and implementation teams. He has been involved in the security industry since 1996.

Wayne Smith, CISSP, CISM, is vice president of sales at Tech Systems Inc. In his role, Smith leads his team in providing network and converged security solutions to end-users and Fortune 500 companies. He has more than 20 years' experience in the IT and security industry.

Christopher Peckham, Ph.D., P.E., is senior VP and CTO at Kratos Public Safety & Security Solutions Inc. (Kratos|HBE), where he leads the team's efforts in complex projects and programs. He is the driver of the technology efforts taken on to maintain thought leadership in the company's industries with regard to the effects of market trends.

"If the industry as a whole is going to move forward, they need to take the best of (ONVIF and PSIA) and come up with one, universal standard," Smith says.

Why do you think the physical security industry is so slow to implement these standards? What is keeping us from moving forward?

Waterton: "It starts with the customer and those who direct their purchases. Our market's long-term success depends on business model innovation, which starts with a compelling value proposition to the customer. Integrators have not learned to make the case of how standards reduce cost, accelerate value and create a robust and reliable solution. Standardization is a strategic business issue that costs all of us if it is not supported and integrated into our practices. This is not just a manufacturer issue."

Oetjen: "The industry is full of proprietary boxes — every manufacturer has its own and the development depends on their availability to do research and development on that box. I think the reason standards have been slow to be adopted is simply because nobody wants to give up their proprietary box or share their information. The proprietary nature of our past has made our manufacturers slow to move to the center and adopt these standards. An additional fear is fear of losing margin, because once a standard comes into play it pushes things more towards a commodity because it's more widely available." ▮

Ron Oetjen is president and co-founder of Intelligent Access Systems of North Carolina. He is a Certified Protection Professional (CPP), a Certified Security Project Manager (CSPM) and member of the American Society for Industrial Security. He has more than 17 years of combined experience in the electronics and security industry.

Bill Bozeman, CPP, CHS, is president and CEO of PSA Security Network. He has 28 years of experience in the security systems integration business and has been successful in both corporate and entrepreneurial environments. In 2005, he was inducted into the Security Integration Hall of Fame. Bozeman currently serves as chairman of Virtual Distribution Management and chairman of Integrator Support LLC.

TruVision IP Cameras from Interlogix

Interlogix has expanded its video surveillance line to include IP and megapixel cameras that are PSIA and ONVIF compliant. The TruVision IP open standards dome and box cameras feature a variety of camera resolutions ranging from standard resolution through 5 megapixel. Equipped with advanced signal processing capability, they effectively capture video under challenging conditions. TruVision IP open standards outdoor dome and bullet cameras support a CGI command set for simple integration into any IP system. ***Request more info: www.securityinfowatch.com/10885096***

Honeywell's equIP Series

Honeywell's equIP Series expanded line of IP network cameras include 720p and 1080p high-definition cameras. The cameras comply with ONVIF and PSIA open-integration standards and integrate seamlessly with existing analog cameras. This reduces the cost of upgrading from analog to IP cameras by enabling the cameras to integrate with industry-compliant video surveillance systems. The cameras deliver a resolution that is three-to-six times greater than analog cameras. ***Request more info: www.securityinfowatch.com/10885108***

exacqVision Enterprise VMS Software

exacqVision Enterprise is an ONVIF-compliant, fully-functional video management system (VMS) software that operates on Windows, Linux or Mac. This VMS software supports third-party IP camera and access control system integrations from multiple manufacturers. Features include event monitoring, digital PTZ functionality, multi-level mapping, notifications, active directory and more, and users can view live and recorded video on a free mobile app. ***Request more info: www.securityinfowatch.com/10885132***

Pelco's Esprit SE IP Camera System

The ONVIF-compliant Pelco Esprit SE IP Integrated PTZ Camera System from Schneider Electric includes both standard and pressurized models for video surveillance and IP network connectivity. Designed and built for continuous use featuring an integrated camera and lens, pan-and-tilt unit, multiprotocol receiver, and Sarix-based H.264 encoder, the cameras offer dynamic remote positioning capabilities and are capable of remaining completely operational in up to 90 mile-per-hour wind conditions. ***Request more info: www.securityinfowatch.com/10879071***

1080p HDR Cameras from Bosch

Bosch Security Systems' Dinion and Flexidome megapixel (2 MP) / 1080p high dynamic range (HDR) cameras deliver exceptional image quality in both bright and dark environments. The ONVIF-compliant cameras feature integrated HD-optimized Intelligent Video Analysis and adaptive video processing to automatically detect objects—such as license plates or faces—and adjust scene exposure to maximize details in these areas. Edge recording is enabled with a Micro SDXC card, and the cameras come with free Bosch Video Client (BVC) software.
Request more info: www.securityinfowatch.com/10452558

Samsung's 3MP Network Box Camera

The SNB-7000 from Samsung Techwin America is an ONVIF-compliant, 3-megapixel box camera that incorporates the supplier's WiseNet2 DSP chipset. Capable of displaying multiple resolutions from CIF (320 x 240) through to 16:9 format 1080p full HD and up to 3 megapixel (2048 x 1536), the cameras feature smart compression, WDR (supported in 2M mode only) and true day/night. ***Request more info: www.securityinfowatch.com/10885144***

Panoramic Cameras from Axis

Axis Communications' AXIS M3007-PV and AXIS M3007-P Network Cameras are 360° fixed mini dome cameras with a 5 megapixel sensor that enables detailed 360° or 180° panoramic views of wide indoor areas. The ONVIF-compliant cameras capture wide video overviews that help detect incidents and track the flow of people. The cameras can be mounted on ceilings for 360° overviews or on walls for 180° panoramic views.
Request more info: www.securityinfowatch.com/10811326

Megapixel Dome Cameras from Arecont Vision

Arecont Vision's MegaDome2 camera series features 1.3, 1080p, 3 and 5 and 10 megapixel cameras, along with two Wide Dynamic Range (WDR) models. The cameras, which are both PSIA and ONVIF compliant, provide remote focus, remote zoom, day/night and auto iris capabilities. Other features include dual H.264 (MPEG-4 Part 10) and MJPEG dual, on-camera privacy masking and binning mode to improve low-light performance. The domes are IP66 rated and IK10 vandal-resistant.

Request more info: www.securityinfowatch.com/10683791

Nextiva VMS from Verint

Verint's Nextiva Video Management Software (VMS) streamlines video security operations to rapidly make sense of vast volumes of video and data. The ONVIF-compliant software offers policy-based video distribution, networked video viewing, and investigation management to help security staff rapidly detect, act, and investigate security breaches and other threats. Automated video system health monitoring helps IT staff manage large, geographically distributed video operations and streamlines video system uptime. ***Request more info: www.securityinfowatch.com/10272333***

HD Dome Camera from Panasonic

Panasonic's WV-SW559 i-PRO Super Dynamic Full HD Vandal Resistant Dome Network Camera provides dual-streaming to simultaneously supply full HD (1,920 x 1,080 pixel) H.264 video and 360p video, both at 30 frames per second (fps). The ONVIF-compliant camera's dual streaming capability provides both real-time monitoring and high-resolution recording. It incorporates an infrared (IR) cut filter that switches on/off for greater light sensitivity of 0.06 lux in black-and-white (B/W) mode. ***Request more info: www.securityinfowatch.com/10715995***

IQinVision's Alliance-pro MP Cameras

The Alliance-pro from IQinVision is a multi-megapixel H.264 Main Profile vandal dome camera. ONVIF and PSIA compliant, it supports up to 5 MP resolutions and provides multiple, individually-configured H.264 and simultaneous MJPEG streams. Remote motorized zoom and focus makes installation easy by eliminating manual focus adjustments at the camera. It also includes a hinged pivoting shroud and 3-axis gimbal. Other features include Power-over-Ethernet, AC or DC power, and a movable IR filter for day and night operation. ***Request more info: www.securityinfowatch.com/10240877***

Avigilon's H3 MP Cameras

The ONVIF-compliant H3 platform from Avigilon includes 1, 2, 3 and 5 megapixel cameras. Featuring H.264 technology and enhanced High-Definition Stream Management (HDSM), they require four times less bandwidth in challenging lighting conditions than previous generations of H.264 cameras. The cameras come in dome and box-body form factors and feature remote focus and zoom, and integrated 3-9mm F1.2 lens with P-Iris support. ***Request more info: www.securityinfowatch.com/10683749***

Illustra 600 Series HD Cameras from American Dynamics

American Dynamics' Illustra 600 Series High-Definition IP cameras come in resolutions of either 720p (1MP) or 1080p (2MP), and are available in white or black. Each camera has an IR illuminator with anti-reflection technology. A patented Theia lens avoids "barrel" distortion, providing clear views and delivering superior video quality even at the farthest angles of an image. The ONVIF-compliant cameras provide images clearly at .04 lux. ***Request more info: www.securityinfowatch.com/10344380***

March Networks' WDR MiniDome

The MegaPX WDR MiniDome Z from March Networks is a fixed, IP dome camera that provides high-definition (HD) video surveillance (1080p) in challenging indoor lighting conditions. The camera incorporates powerful Wide Dynamic Range (WDR) to ensure clear and detailed video capture in variable lighting applications, such as inside bank branches or retail stores. It employs advanced H.264 video compression for bandwidth and storage efficiency and is ONVIF compliant for easy third-party integration. ***Request more info: www.securityinfowatch.com/10885076***

XProtect Corporate VMS from Milestone

Milestone Systems' XProtect Corporate 5 is a premium video management software (VMS) for sophisticated, high-risk security installations. The ONVIF- and PSIA-compliant product supports an unlimited number of cameras, users and sites and is available with support for 64-bit Recording Servers. It offers interactive, multi-layered maps linked to alarms and support for edge storage with flexible retrieval. Built-in support for the supplier's Smart Wall gives a comprehensive overview of installations and command center control.

Request more info: www.securityinfowatch.com/10885169

NeVio Cameras from Everfocus

ONVIF and PSIA compliant, EverFocus' NeVio Series network cameras connect to any IP network, including the Internet, and enable remote viewing and recording from anywhere in the world. The cameras offer H.264/MPEG4/M-JPEG digital signal output with up to four separate configurable streams — each with its own unique combination of protocol, FPS, image size and degree of compression.

Request more info: www.securityinfowatch.com/10715954

Toshiba's ESV4 NVR

Toshiba Surveillance & IP Video Products Group's ESV4 four-channel embedded network video recorder (NVR) features HDMI output in 1080p high-definition video, simultaneous recording of four megapixel IP cameras, mobile app support (iPhone, iPad, Android), and free Video Management Software. It is compatible with the supplier's IP cameras and more than 500 other ONVIF-compliant IP cameras up to five megapixels. ***Request more info: www.securityinfowatch.com/10860009***

Sony's Unitized Series

Sony's unitized series of outdoor pan/tilt/zoom (PTZ) dome cameras, including the new SNC-ER585 outdoor rapid dome camera, are pre-wired and pre-installed inside an enclosure. The ONVIF-compliant camera line ranges from economical standard definition (VGA) models to full HD (1080/30P) capabilities. The SNC-ER585 is designed for operating in a wide temperature range, from –40c to +60c, and features 30x optical zoom, IP66 rating for outdoor use, dual stream H.264/MPEG-4/JPEG 30 fps @ full resolution, day/night functionality and more.

Request more info: www.securityinfowatch.com/10816170

Full HD Camera Line from Canon USA

Canon USA's line of Full HD IP Security cameras feature low-light performance, a Genuine Canon aspherical wide-angle zoom lens with optimal lens coating technology, a 2.1 megapixel 16:9 aspect ratio widescreen CMOS image sensor, and a pair of proprietary Canon DIGIC image processors. The cameras also feature sophisticated analytic capabilities and ONVIF Profile S conformance. The image processor provides Auto Gain Control, to reduce image noise.

Request more info: www.securityinfowatch.com/10798354

IP Cameras from Grandstream Networks

The GXV3672_FHD and GXV3672_HD IP cameras from Grandstream Networks are outdoor day/night tube cameras with IP66 weatherproof casing and ONVIF compliance. They feature infrared (IR) capability for advanced nighttime and low-light video surveillance recording, and either 1080p or 720p HD resolution. In addition to high-resolution black/white images produced at night, the IR cameras deliver vibrant HD color images during the day.

Request more info: www.securityinfowatch.com/10861822

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