

SECURITY SOLUTIONS TODAY



TRAVEL SECURITY POST-PANDEMIC

Insights from a global leader in identity technologies

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CISA PUBLISHES 2022 LIST OF 25 MOST DANGEROUS VULNERABILITIES

The US Cybersecurity and Infrastructure Security Agency (CISA) and non-profit MITRE which manages federally funded research in cybersecurity, have released the 2022 Common Weakness Enumeration (CWE) Top 25 Most Dangerous Software Weaknesses list. An attacker can exploit these vulnerabilities to take control of an affected system, obtain sensitive information, or cause a denial-of-service condition.

Rank	ID	Name	Score	KEV Count (CVEs)	Rank Change vs. 2021
1	CWE-787	Out-of-bounds Write	64.20	62	0
2	CWE-79	Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')	45.97	2	0
3	CWE-89	Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection')	22.11	7	+3 ▲
4	CWE-20	Improper Input Validation	20.63	20	0
5	CWE-125	Out-of-bounds Read	17.67	1	-2 ▼
6	CWE-78	Improper Neutralization of Special Elements used in an OS Command ('OS Command Injection')	17.53	32	-1 ▼
7	CWE-416	Use After Free	15.50	28	0
8	CWE-22	Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')	14.08	19	0
9	CWE-352	Cross-Site Request Forgery (CSRF)	11.53	1	0
10	CWE-434	Unrestricted Upload of File with Dangerous Type	9.56	6	0
11	CWE-476	NULL Pointer Dereference	7.15	0	+4 ▲
12	CWE-502	Deserialization of Untrusted Data	6.68	7	+1 ▲
13	CWE-190	Integer Overflow or Wraparound	6.53	2	-1 ▼
14	CWE-287	Improper Authentication	6.35	4	0
15	CWE-798	Use of Hard-coded Credentials	5.66	0	+1 ▲
16	CWE-862	Missing Authorization	5.53	1	+2 ▲
17	CWE-77	Improper Neutralization of Special Elements used in a Command ('Command Injection')	5.42	5	+8 ▲
18	CWE-306	Missing Authentication for Critical Function	5.15	6	-7 ▼
19	CWE-119	Improper Restriction of Operations within the Bounds of a Memory Buffer	4.85	6	-2 ▼
20	CWE-276	Incorrect Default Permissions	4.84	0	-1 ▼
21	CWE-918	Server-Side Request Forgery (SSRF)	4.27	8	+3 ▲
22	CWE-362	Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')	3.57	6	+11 ▲
23	CWE-400	Uncontrolled Resource Consumption	3.56	2	+4 ▲
24	CWE-611	Improper Restriction of XML External Entity Reference	3.38	0	-1 ▼
25	CWE-94	Improper Control of Generation of Code ('Code Injection')	3.32	4	+3 ▲

This year's list also incorporates updated data for recent Common Vulnerabilities and Exposure (CVE) records in the dataset that are part of CISA's Known Exploited Vulnerabilities (KVE) Catalog launched in November 2021. In total, the dataset analysed contained a total of 37,899 CVE Records from the previous two calendar years.

As with past years, there is a continued transition in the Top 25 to more specific Base-level weaknesses, while there is a slow decline in the number of unique Class-level weaknesses (from 9 in 2020 down to 7 in 2022). This movement is expected to continue in future years as the community improves its mappings to more precise weaknesses that threaten today's systems at a more operational level, as Base-level weaknesses are more informative to practical mitigation than higher, Class-level weaknesses.

Regarding risk mitigation, CISA said that this year's list would benefit software architects, designers, developers, testers, users, project managers, security researchers, educators, and contributors to standards developing organisations. ■

HOW IP INTERCOMS MEET EVOLVING SECURITY NEEDS



Intercom products address a crucial part of the security, communications and convenience needs in both residential and business sectors, says Hangzhou, China-based Hikvision. They have evolved over time alongside the 'leapfrog' development in technologies created for better and safer living environments.

The transition from analogue to IP technologies

The intercom market is witnessing a significant transition from analogue to IP. Traditional analogue systems feature relatively poor audio and image quality and limited functionality. For example, they cannot be accessed using a mobile app or networked management systems. Although analogue systems are often a more economical option, more manufacturers and installers have recommended their customers shift to IP-based intercoms for their wider range of capabilities – including higher image resolution, mobile control, remote operation, and a series of smart functions.

According to Allied Market Research, the IP intercom market is projected to experience robust growth. The global IP Intercom industry generated US\$2.2 billion in 2020, and is anticipated to generate \$4.9 billion by 2030, witnessing a CAGR of 8.5% from 2021 to 2030.

IP intercoms bring a new level of convenience

Mobile control

IP intercoms let owners receive calls, play video, and open locks from anywhere through just a simple touch. For example, people often receive calls on their mobile devices for package deliveries or other services when they're not at home. IP intercoms, however, allow users to give temporary access remotely to those who need it, just

using a simple mobile application. This is more convenient and much safer than manually giving out passwords or key cards.

User-friendly interfaces

IP intercoms commonly provide a user-friendly screen with a clearly visible interface, simple touch interaction, intuitive operation, and multi-functional information display (e.g., weather, news, announcements, etc.). These easy-to-use features help get modern consumers accustomed to using IP intercoms since they operate very similarly to mobile phones.

High image quality

Compared to pure analogue solutions, IP intercoms provide excellent imaging with higher resolution and wider field of view. Wide Dynamic Range (WDR) and night vision are also supported to help users see clearly despite challenging light conditions, such as direct sunlight or high contrast environments during the day and darkness at night.

Intelligent authentication

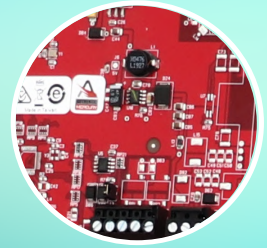
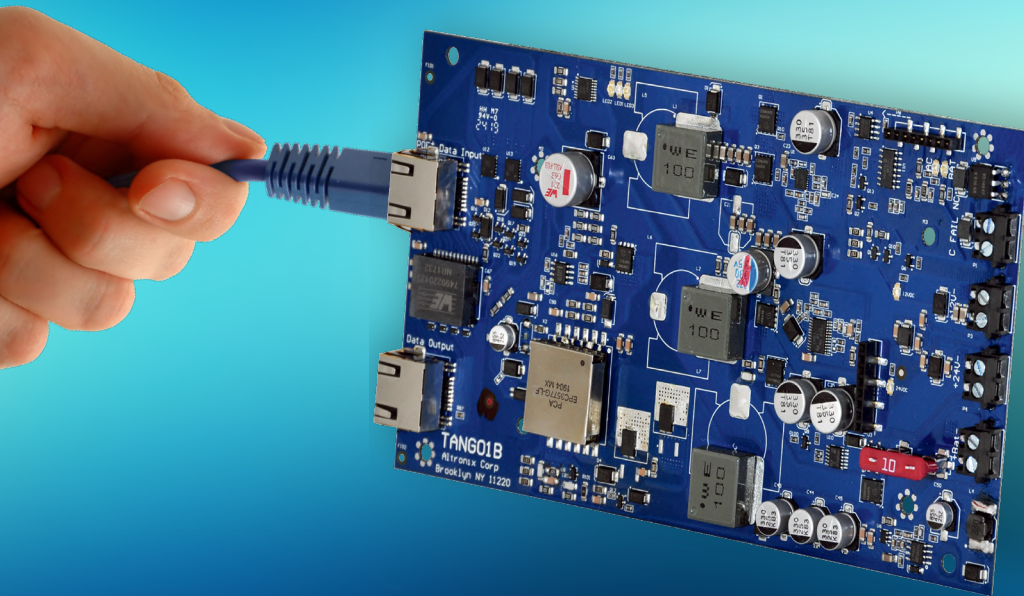
IP intercoms also support multiple access methods, from ID cards and PIN codes to biometric recognition. Additionally, following recent trends in contactless solutions, IP intercoms simplify the action of opening doors while addressing common hygiene concerns.

All-in-one management

IP intercoms also offer opportunities for integration with other security systems, such as video and alarms. A unified control centre ensures all-in-one linkage among various devices and systems and facilitates convenient device operation and management, improving security for businesses and home owners. ■

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GLOBAL VMS ROLL-OUT PROJECT WITH QOGNIFY CAYUGA



Biopharmaceutical company Boehringer Ingelheim has a global footprint of about 180 sites. To effectively support video surveillance, Boehringer decided to standardise its hardware and software approach in the configuration and rollout of IT systems. Thanks to Qognify's Cayuga ease of deployment, high scalability and customisation abilities, Boehringer could significantly reduce deployment time for new CCTV instances, reducing overall project cost and time.

This also included physical security applications – in particular the video management system (VMS). The variety of sites also presented a challenge for the VMS system which needed to support end user requirements as well as satisfy IT needs for stability and ease of support.

The Solution

To find the right VMS that would meet all its current and future requirements, Boehringer conducted an in-depth vendor selection process, pitting market leaders in video management systems against each other and comparing them with over 200 relevant questions from areas of IT security, system expandability, reliability of operation, and ease of deployment, followed by physical testing conducted by end users and their technical team.

Qognify's VMS solutions was ultimately selected as ideal for the multi-site enterprise environment of Boehringer, with its focus on easy installation, configuration, and management. Supporting the majority of network cameras available on the market, Cayuga manages all camera feeds to enable holistic video monitoring at a glance, whether centrally on-site or remotely, with ease. ■

THALES SURVEY PREDICTS WARM WELCOME FOR NEW EUROPEAN DIGITAL ID WALLET

A major new survey by Thales shows that two out of three Europeans citizens are looking forward to the arrival of an EU-backed Digital ID Wallet (EDIW) for storing their ID card, driving licence and other official documents and signed attestations on a smartphone. The results also reveal that while 27% currently use some form of official national Digital ID scheme, 45% are relying on insecure, unofficial, 'DIY' (do it yourself) scans and photos of their cards and documents to help prove their identity and entitlements.

Starting with a pilot phase in 2023, every member state must by 2024 offer citizens a Digital ID Wallet that can be used throughout the EU. The results of the survey underline the need for this pioneering European initiative aiming at offering most convenient User Experience (UX) at highest level of security. Regarding UX, 34% of people surveyed currently find it difficult to prove their identity when renewing an ID document, 30% have problems when making a high value purchase, and 29% encounter troubles when applying for financial services. However, among the 40% who face such issues, the figure falls to just 5% or below when a digital format is used.



Image: www.freepik.com

Successful wallets will need to match highest security standards

In all but one of the countries surveyed, government emerges as the preferred provider of the EDIW. However, despite widespread public support for the idea, the results demonstrate that wallet providers must address significant security and data privacy concerns among potential users. In particular, the research shows that 65% of Europeans rate security as the most important feature in any new wallet, followed by convenience and privacy.

The survey uncovers differences in national attitudes. The French and the Italians are the most positive about the EDIW, with 85% and 75% respectively claiming

they will use it. Enthusiasm for the EDIW is also influenced by age, and citizens' experiences of digital wallets providers (such as Apple, Google, Samsung) and national Digital ID schemes including BankID in Sweden.

"By providing citizens with a secure and convenient means of proving their identity and entitlements via a smartphone, the EDIW will enable smooth and secure interactions between citizens, governments and private businesses. The results of our survey offer providers a better understanding of citizens' needs, helping them to maximise adoption and use of the new wallets that will be introduced throughout the EU over the next 18 months. Thales as a leader in digital security and trustful provider of digital identities remains fully committed to address those needs thanks to field-proven wallet solutions" said Youzec Kurp, VP Identity and Biometric Solutions at Thales.

The survey took place in December 2021, involving 1835 citizens from seven different EU countries. ■



Image: www.freepik.com

IDEMIA: How a global leader in identity technologies is redefining travel security post-pandemic



(From left) Emmanuel Wang, VP Marketing Border Control and Passenger Facilitation, and Nicolas Phan, Border Control and Passenger Facilitation Market Manager

Digital transformation, contactless interactions, health risk assessments – the resilience of the travel industry in the face of the pandemic comes with many changes. Let us explore how these changes can help unlock the traveller experience of tomorrow.

In the face of the pandemic, the air travel industry has shown great resilience by reinventing itself. IDEMIA, a longstanding partner of airports, airlines and border authorities, has used its technological expertise to help transform recent challenging times into an opportunity to unlock the travel experience of tomorrow. We sat down with Emmanuel Wang, VP Marketing Border Control and Passenger Facilitation, and Nicolas Phan, Border Control and Passenger Facilitation Market Manager to discuss the challenges that lie ahead, and how

IDEMIA can continue to support the travel industry with its transformation.

With the digital transformation of the travel industry in full swing, how is IDEMIA supporting this revolution?

Emmanuel Wang: The travel industry has recently faced many challenges, and despite the numerous restrictions, it has demonstrated great adaptability; the continuous digital transformation is proof of that. As we start the year, we know that the challenges of the pandemic will not simply disappear. More than ever, the goal is to offer a safer and smoother travel experience, ensuring stress-free journeys for passengers.

In this context, IDEMIA is supporting the travel industry to prepare itself for the future. One of the areas that

needs to be addressed in 2022, is the development of contactless solutions. We are pioneers in the development of contactless biometrics and we introduced several high-tech products – even before the pandemic.

An example is our self-service kiosk, TravelKiosk, which offers a fully touchless process, including biometric capture and interaction with the equipment for the immigration pre-check. These types of technology will reassure passengers that it is safe to travel again, and this is a field in which we continue to innovate. We are currently developing the new generation of iris, face and fingerprint capture solutions. I cannot divulge too much for the moment. However, what I can say is that we are working on making the devices smarter and more efficient to offer travellers an enhanced user experience.



Nicolas Phan: Travellers have to provide documents prior to their trip such as the electronic travel authorization (eTA), passenger locator forms, a health travel pass, etc. This is a long list that has been added to because of the pandemic. The objective is to facilitate travellers' lives so that they can submit all the documents from the comfort of their home, and arrive at the airport ready to fly. Such an approach will not only be more convenient for travellers, but it will also support the decision-making process of various stakeholders. By having early access to this information, airlines can ensure that only travellers that comply with the regulations are allowed to board. It will also help border authorities to identify travellers that potentially present a sanitary and/or security risk.

Last, but not least, passports will soon be digitalised too. IDEMIA, along



"The demand for biometric-based solutions for border control, and a streamlined passenger experience are on the rise. What is clear is that in the case of a pandemic, border control is the first line of defence of a country, and we expect governments to continue investing in this in 2022, carrying on from 2021."

with the ICAO (International Civil Aviation Organization), is working on the development of the Digital Traveler Credential (DTC). The DTC will allow border agencies, port operators and carriers to improve their efficiency while providing a safe and smooth travel experience. Ease of use and contactless interactions are two of the main benefits of the DTC for travellers. Substantial progress with regard to the DTC was achieved in November 2020, through the ICAO's endorsement of the self-derived DTC: DTC Type 1. In 2022, we are expecting the ICAO to approve the specifications regarding the physical component defined in DTC Type 2 and 3. Once available, the DTC will take the digitalisation of travel one-step further.

In addition to contactless technologies, what other elements need to be considered to improve the traveller experience?

Wang: We can never say it enough: privacy and ease of use. The increase of digitalisation across various domains has led users to consent to temporarily sharing their personal data. Privacy is IDEMIA's priority. As experts in biometrics, we know that personal data is extremely sensitive and must be protected at all times, and that is exactly what we do! All our solutions are developed in accordance with the principle "data security by design" and we will continue to do so.



Phan: As for ease of use, there is a focus on automated, self-service solutions for facilitation and sanitary reasons. Some travellers may believe that self-service solutions might be complicated, especially if you are jetlagged, or not so tech-savvy. This is why IDEMIA puts a lot of effort into extremely intuitive interfaces for our solutions. At IDEMIA, we have an in-house team of UX experts that are heavily involved in the design of our products, guaranteeing a smooth user experience.

We often associate digital transformation with air borders, but what about land and sea borders?

Phan: Good point! Modernising the infrastructure of land and sea borders will probably be one of the biggest challenges over the next few years. Their digital transformation is underway, but not at the same pace as air borders, as they are difficult to standardise, and involve a variety of use cases. There are some initiatives that are currently being deployed. One example is the solution that IDEMIA successfully deployed at various seaports

for the Royal Caribbean Cruise Line in the USA. We support both the carrier and the border authority with a biometric identification system as part of the disembarkation process to re-enter the USA after a cruise. The results have been very positive; the processing time is three times less than what it was!

Wang: To address the modernisation of land and sea borders, there needs to be a focus on innovation and customisation. It is essential to take into account the various transport modalities, available infrastructure, and the variety of traveller profiles. A one-size-fits-all approach is not a viable option. There are some large-scale train stations and seaports that can implement solutions that are being used at airports, but mobile solutions would probably be the best bet for the specificities of land and sea borders. We believe that SDK (Software Development Kit) modules that can be easily embedded into border guards' smartphones and multi-biometric tablets are optimal solutions to increase their mobility on the field.

Due to the pandemic, a new health element has been added to the risk assessments performed on travellers. How can the industry help governments?

Wang: There is no doubt traveller risk assessments will be at the core of border management. Traveller risk assessments were traditionally based on the analysis of Advanced Passenger Information and Passenger Name Record (API-PNR) data. However,



Image: www.freepik.com



the pandemic has highlighted other needs and in the future they may well incorporate health certificates and other relevant data such as eTA and pre-arrival forms. Of course, this must be done by specific government agencies in full compliance with privacy regulations.

A convenient and secure option would be to link health certificates and eTA to the traveler's DTC. This will enable government agencies to perform the necessary checks prior to a traveler's arrival. In addition, the government would benefit from better quality data, and a decrease in errors and cases of intentional data manipulation.

Phan: The industry has a key role to play here. The main objective is to propose a risk assessment solution that can collect data from different sources and analyse it in compliance with the regulations defined by the stakeholders for security and health purposes. These solutions need to be more agile; a cloud-based solution is something that should be considered to limit costs and allow more countries to conduct effective assessments.

What are IDEMIA's key projects for the travel industry for 2022?

Wang: We have many ongoing projects all over the world. For the European Entry/Exit System, we will deliver the projects won and will continue to support Member States to comply with European regulations.

We will also continue to participate in passenger facilitation projects around the world. Our expertise in biometrics and identity management is key in enabling airlines and airports to offer travellers a pleasant experience.

Phan: The demand for biometric-based solutions for border control, and a streamlined passenger experience are on the rise. What is clear is that in the case of a pandemic, border control is the first line of defence of a country, and we expect governments to continue investing in this in 2022, carrying on from 2021.

The same goes for the biometric passenger journey at airports. We are currently in talks with various operators that intend to propose a contactless, biometric journey to reassure travellers. A lot is being done to ensure a recovery of the industry and IDEMIA is there to support! ■

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ABLOY INTRODUCES NEW KEYLESS ACCESS CONTROLLER

Abloy Oy and ASSA ABLOY Global Solutions have announced their jointly developed, new ABLOY Keyless Access Controller. With this Bluetooth-connected controller, businesses can upgrade their doors to be keyless – making most electric locks and other electronic door locking devices work with a digital key on a mobile app instead of a physical credential. The controller not only works with ABLOY products but also with hardware of any brand using compatible wiring.

Relying on continuous power, this small device conceals the locking mechanism and is optimally installed inside a cabinet or behind a door and is therefore difficult to manipulate from the outside.

“By developing and applying new technologies, we can enable a smoother, safer and a more connected world. We see a future where any door or hatch can be opened, locked and monitored from anywhere, in real time. Our Keyless Access Controller is a major leap,” said Jussi Ahvalo, Vice President, Abloy International.

“Keyless access management not only prevents downtime and reduces operational costs, but also minimises



The new ABLOY Keyless Access Controller



energy-consuming travel, making daily processes work smoothly. We want to help organisations move towards a keyless future and take secure, controlled steps forward,” said Simo Pikkarainen, Product & Software Director, ABLOY Critical Infrastructure, ASSA ABLOY Global Solutions.

The controller is operated with the ABLOY mobile app on the user’s mobile phone over a Bluetooth Low Energy connection. The device is compatible with numerous electric lock types, such as electromechanical, electric, magnetic, motor and cabinet locks but also with alarm systems, door strikes, latches, actuators as well as automatic or manual garage, sliding and roll-up doors, gates and lifts.

The controller can be managed with ASSA ABLOY Global Solutions’ CIPE

Manager, ABLOY OS INCEDO or by integrating with a third-party system. The solution offers well documented application programming interfaces (APIs) and mobile software development kits (SDKs) for easy integrations and partner solutions. The controller tracks usage and records opening and locking events automatically. The records can be accessed in the management system used by the organisation.

Product specifications:

- **Body material:** high heat resistant acrylonitrile butadiene styrene (ABS) plastic
- **Size:** 50 x 50 x 32mm
- **Operating temperature:** -30°C to 60°C
- **Connectivity:** Bluetooth Low Energy; range up to 50m
- **Wiring:** one device per controller; 12–24 V powered ■

GALLAGHER RELEASES SITE MANAGEMENT SOFTWARE COMMAND CENTRE V8.70

The latest version of Gallagher's award-winning site management software, Command Centre, has been released to market, providing customers with enhanced efficiency and site protection for a safer tomorrow.

Command Centre v8.70 introduces a range of features and enhancements to create operational efficiencies and improved site security, including a next-generation integration with HALO Smart Sensor.

Able to detect substances in the atmosphere, as well as light, pressure, temperature, humidity, and sound, the HALO Smart Sensor integration helps sites achieve safe and healthy environments by detecting abnormalities such as a gunshot or smoke, and monitors this within Command Centre.

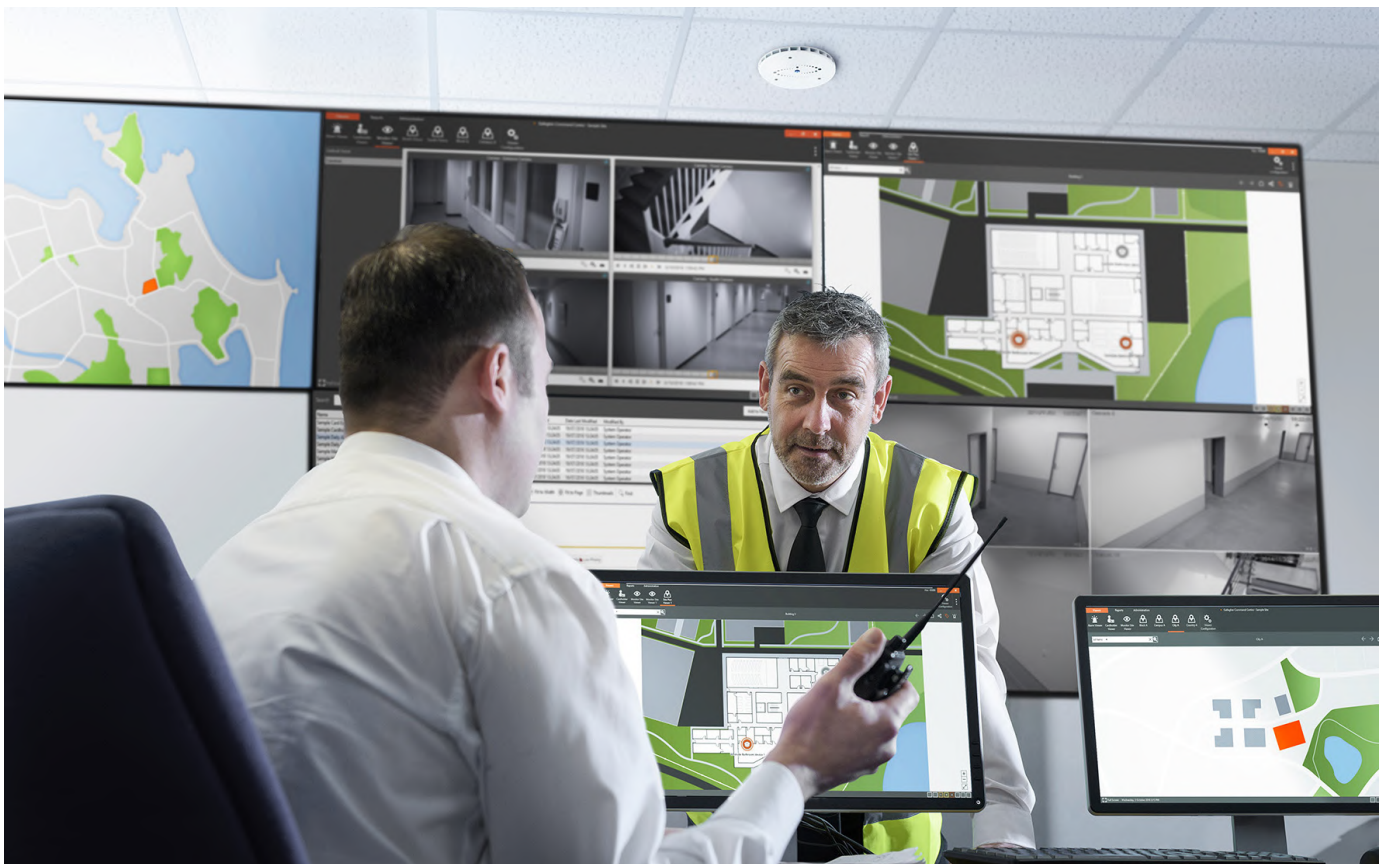
"We provide regular Command Centre updates to support sites of all sizes and security requirements," says Meredith Palmer, Chief Product Officer at Gallagher. "Command Centre v8.70 offers intelligent solutions that respond to

the needs of our customers today, providing enhanced site protection and features designed to improve the operator experience."

A complete revamp of the controller upgrade process addresses a pain point for sites carrying out multiple controller upgrades. The purpose-built controller update tool minimises disruption to a site's operation while providing greater situational awareness and visibility of the upgrade process.

The new release also delivers enhancements to Command Centre's Site Plans functionality including a background colour selector, enabling operators to customise the background and viewport to suit the needs of their site.

Enhanced support for third-party access solutions, including SALTO Space 6.4 support for the SALTO NCoder, and IDEMIA MorphoWave fingerprint templates on card are now supported with MorphoWave devices, offer customers greater flexibility and choice in access solutions. ■



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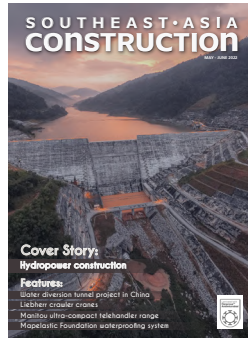
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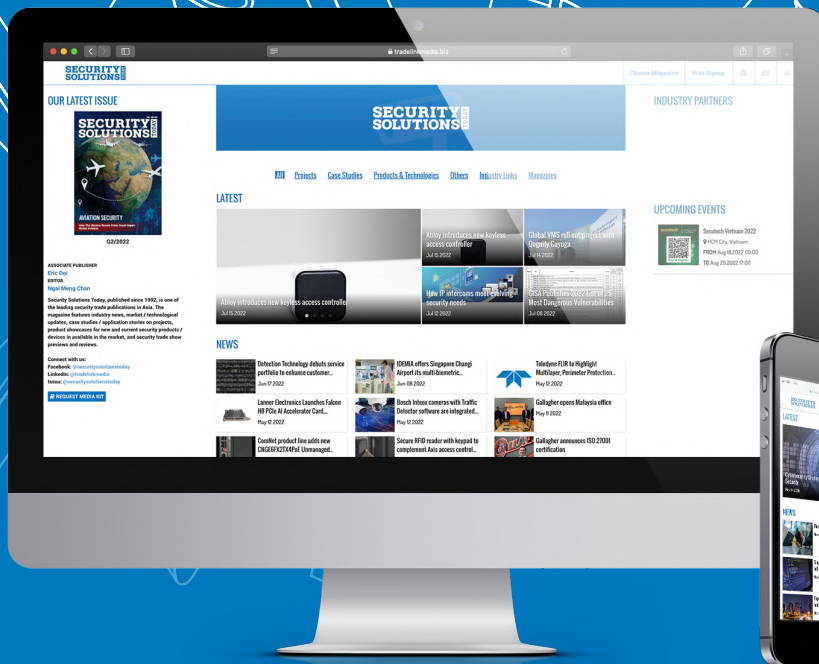
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