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SITA has announced a large-scale technology deployment at Frankfurt Airport (FRA) in Germany to enhance the passenger experience and increase the airport's operational efficiency. The deployment features the installation of 87 biometric-enabled SITA TS6 Kiosks and is expected to be completed before the end of 2021. SITA's TS6 check-in kiosks allow passengers to check-in quickly and obtain bag tags for later self-bag drop services. The kiosks work in concert with SITA Flex and offer passengers a unified user experience across multiple airlines, increasing ease of use while also reducing physical touchpoints.

Passengers remain in control of their self-service options, from check-in to self-bag drop via the biometric-enabled kiosk. The new SITA TS6 kiosk was the winner of the 2021 IF Design award for the slick, sustainable, and adaptive design, which can be customised to fit with the airport's brand design and specific customer needs. The modular design also means enhancements and modifications can be made without replacing the entire kiosk, bringing added cost efficiency and sustainability benefits.

SITA's TS6 Kiosk can be used for check-in and bag tagging paving the way for a completely touchless, mobile passenger journey. The deployment at FRA represents SITA's largest implementation in Europe.

APT Skidata has carried out a total system upgrade to all 11 public parking areas at London Heathrow Airport (LHR) in the UK. Working with parking management company APCOA Parking UK, APT Skidata delivered software and hardware upgrades across the airport's entire parking estate. The parking facilities have been upgraded to run on APT Skidata's vehicle access management system, Parking.Logic, with new features and advanced software applications specifically designed to enhance the customer experience. Heathrow will also now benefit from Skidata's cloud-based reporting and management system. With access to real-time key data and information, including ticket data, payment types, cashflow and occupancy levels, APCOA can monitor and manage the reporting data to take immediate decisions, as well as analyse performance against long-term strategies and objectives to optimise parking across the Heathrow estate.

The system also includes access to Skidata's Emissions Evaluation Service (EES), which provides real-time data on the fuel type of every vehicle entering and exiting each parking lot via ANPR. This can be used to implement initiatives such as creating 'green' tariffs for drivers of electric or hybrid vehicles, identify high emission pockets, and plan for required levels of charging infrastructure based on electric vehicle usage data.

As well as providing digital services and software enhancements, Skidata has also provided hardware upgrades, such as replacing existing payment stations with its latest Skiosk payment terminals. Equipped with an interactive 21.5in touchscreen display, the Skiosk's intuitive design makes them extremely easy to use, with multiple payment options. Additionally, the 114 controlled entry and exit lanes across the Heathrow estate have all been upgraded to Skidata's Power.Gate control columns, which support technologies including RFID cards, ANPR and contactless payment at exit via Apple or Google Pay.

Singapore-headquartered Envision Digital International Pte Ltd and SITA have signed a Memorandum of Understanding (MoU) to jointly build end-to-end net zero carbon solutions for airports worldwide. The collaboration will harness Envision Digital's strengths in digitalisation, data management, and artificial intelligence applied to energy and smart building solutions, and SITA's strengths in air transport technology and operations to support airports in their journey towards net zero carbon emissions. The MOU forms part of SITA's strategy to help the air transport industry reduce its carbon footprint through greater operational efficiencies. Michael Ding, Global Executive Director at Envision Digital, said: "Airports have been progressive in their ambition to reach net zero, and this partnership combining our AIoT leadership with SITA's technology capabilities, will create the end-to-end net zero carbon aviation solution needed by the industry to reach their goal." Sergio Colella, SITA President for Europe, said: "According to ACI, some 235 airports across Europe have committed to net zero by 2050, and more than 90 airports are now set to achieve net zero carbon emissions by 2030. With Envision Digital and SITA working together, we can help these airports in their journey towards meeting their sustainability commitments, combining solutions that optimise airport operations to reduce local emissions while optimising infrastructure-related energy consumption." Both companies will work together to build a carbon reduction solution that connects and facilitates real-time data flows in an airport to monitor their real-time carbon footprint, gain data-driven insights, and manage emissions. Airports will be able to harmonise energy silos, drive efficiencies, and reduce energy consumption while maintaining high traveller comfort levels and enabling more efficient operations as the aviation industry rebounds.

Aéroport Paris-Vatry (XCR) in France has selected CHAMP's Cargospot Handling solution to support its ground handling service operations. It has also chosen Cargospot Mobile to accompany its new cargo management application as a means to efficiently and affordably leverage a range of the latest, modern mobile devices into its warehouse operations. CHAMP's Cargospot Handling is a sophisticated and comprehensive cargo operations and terminal management solution that is straightforward and efficient for ground handlers and terminal operators to use, allowing for easy training with minimal time required. With Cargospot Mobile, the airport's ground handling service can now take advantage of a range of iOS and Android mobile and tablet devices, and reduce the inefficiencies brought on by using non-native systems. With Cargospot Handling, all data collected on the warehouse floor is now fed directly into XCR's cargo management application.

London Heathrow Airport (LHR) in the UK has joined forces with Microsoft and Smiths Detection to test the world's first artificial intelligence (AI) model to fight illegal wildlife trafficking. The first trial of the algorithm at the airport revealed a detection rate of more than 70% in identifying trafficked animals hidden in baggage and air cargo. Under Project SEEKER, several X-ray images gathered from Smiths Detection's CTX 9800 baggage scanners at Heathrow were utilised for training the Microsoft AI for Good model. These solutions can scan nearly 250,000 bags a day and produce extensive data for inspection. This 'first of its kind' multispecies AI model will provide more time, scope and information to authorities for tracing criminal traffickers and fight the USD 23 billion illegal wildlife trafficking business. After the detection of an illegal wildlife item, the security and Border Force officers will receive alerts from the technology, allowing them to take prompt action. Furthermore, the Royal Foundation's United for Wildlife programme will team up with its partners in the transport industry to support the international launch of the SEEKER capability. In the same spirit, Crime Stoppers International (CSI), in partnership with the USAID Reducing Opportunities for Unlawful Transport of Endangered Species (ROUTES) Partnership, has developed a mobile device application. This application will enable members of the aviation sector to report suspicions of wildlife trafficking anonymously.

UK-based Elevator and escalator specialist TK Elevator has completed the installation of its new Remote Control System (RCS) for passenger boarding bridges at Istanbul Sabiha Gökçen International Airport (SAW) in Turkey. The RCS, which is a combination of hardware and

software, enables passenger boarding bridges to be safely controlled by an operator from a remote position instead of the classic operation inside the bridge. The new system consists of a set of cameras to give the operator an enlarged field of view when docking and undocking a passenger boarding bridge. High-precision sensors assist the operator during the positioning process.

Manuel Alvarez, CEO of airport solutions at TK Elevator, said: "Based on the experience of over 5,500 passenger boarding bridges installed worldwide, TK Elevator's goal is to improve airports' efficiency and travellers' mobility at airports through smart technologies and intelligent solutions. The new RCS improves turnaround times of airplanes and operational savings while offering increased safety in busy airports which face growing mobility requirements. The system makes docking operations at airports smoother and helps saving energy."

Over the next five years, Qatar Airways Cargo will replace its entire fleet of more than 10,000 ULDs with Safran Cabin's Fire Resistant Containers (FRC), aiming to exchange 70% of the units during 2022. Qatar Airways Cargo's decision to invest in the newly developed Fire Resistant Containers stems from the airline's vested interest in preventing safety issues related to the increasing risk posed by lithium battery shipments: a concern that Guillaume Halleux, Chief Officer, Cargo at Qatar Airways, recently also raised in a presentation to the air cargo industry at IATA's World Cargo Symposium in Dublin, Ireland. "As a leading cargo airline, we put the safety of our passengers and employees first. Due to the increased transport of devices with lithium-ion batteries in Unit Load Devices (ULDs), we were looking for a solution that prevents incidents in containers used for the handling and storage of baggage, as well as the transportation of cargo goods. Thorough testing has validated the absolute fire resistance of Safran Cabin's new FRC containers, and we are very pleased to roll out this solution in our belly-hold fleet within such a short period of time," he said.

It is these concerns about the safe transportation of lithium-ion batteries that prompted Safran Cabin to extend its portfolio with a Class-D Fire Resistant Container, complementing its existing solutions against Class-A fires. Safran Cabin's newly developed FRCs are designed to resist a lithium-based fire for six hours.

Bangalore International Airport Limited (BIAL), the operator of Kempegowda International Airport (BLR) in Bengaluru, India, has become the first airport in South Asia to commission a Rosenbauer Tactical Simulator, further strengthening the airport's firefighting capabilities.

With this simulator, firefighters can train in a realistic environment, master the tactical use of Rosenbauer Panther trucks as well as operate High Reach Extendable Turrets (HRET) for extreme aircraft fire emergencies. To ensure the safety and security of all stakeholders, including passengers and airlines, BIAL has added four advanced Rosenbauer Concept Fire Trucks (CFTs) to its fleet. Two Rosenbauer Panther 6x6 trucks and two Rosenbauer Panther 8x8 trucks, including two with HRETs were commissioned recently, taking the overall number of CFTs in its fleet to eight. BLR Airport is the only airport in India to commission these hi-tech trucks with HRETs.

The simulator provides Incident Commanders, Crew Commanders and Lead Firefighters with an opportunity to gain experience in the tactical use of CFTs through turret control and application of firefighting agents, command and control, vehicle operation and basic driving and positioning skills. The simulator has a cockpit that matches every detail of the Rosenbauer fire truck, providing a realistic experience in operation of CFTs, including all operating controls, from the steering wheel to turret control, projected through multiple 55-in HD screens. Firefighters can be prepared for all kinds of aircraft related emergencies as multiple scenarios can be customised.

Publisher's note: The articles in this special report, compiled for **inter airport Europe**, are samples from the biweekly **Momberger Airport Information** newsletter, published since 1973. The newsletter is an advertising-free, global airport news service that consists of 8 modules and allows subscribers to customize their own newsletter package. The items in this report represent only a small sample of **Momberger Airport Information**. The modules that make up the biweekly newsletter are Airport Development (DEV), Calendar of Events (CAL), and the subscriber-selectable modules Airport Operations (OPS), Ground Support Equipment (GSE), Air Traffic Services (ATC), Consultant & Contractor / Sustainable Aviation (CON), Airport Information Technology (AIT), and Maintenance Base & FBO (MRO). For more information and to order an annual subscription, please visit www.mombergerairport.info