

for inter airport Europe from Momberger Airport Information #1237 / February 24, 2025

Copenhagen Airport (Denmark) has awarded Vanderlande a contract to supply 20 automated screening lanes with central image processing as part of its passenger checkpoint upgrade.

This agreement builds on a Strategic Partnership established in 2020 to develop the “Checkpoint of the Future.” The project aims to enhance security efficiency while maintaining a compact footprint as passenger numbers grow.

Vanderlande’s PAX Checkpoint solution includes the PAX Advanced automated screening lane with tray return and the PAX Multiplex remote screening software. The modular system allows the airport to optimise lane configurations and scale operations as needed. The new checkpoint will improve passenger flow, security standards, and overall traveller experience, ensuring a smooth and stress-free process.

The system offers seamless integration with future scanners from any supplier, reduced energy consumption, and automated processes such as empty tray recognition and stacking. It also enhances working conditions for security staff with lower noise levels and an ergonomic remote screening facility. Copenhagen Airport’s Senior Vice President of Security Services, Johnnie Müller, emphasised that this investment aligns with the airport’s strategy to remain at the forefront of world-class security by prioritising passenger satisfaction through cutting-edge technology. Vanderlande’s Executive Vice President, Timothy Mathews, highlighted the company’s close collaboration with the airport in tailoring the solution to meet its specific security needs.

Vanderlande is a global provider of airport automation solutions, handling over 4 billion pieces of baggage annually across more than 600 airports worldwide, including 12 of the world’s top 20 airports. The company has installed around 430 security lanes globally.

Hamburg Airport (Germany) has fully implemented OneControl, the Integrated Controlling Working Position (ICWP) system developed by ADB SAFEGATE, marking a significant advancement in air traffic management.

The system, operational since November 2024, enhances apron control operations with advanced situational awareness, safety features, and improved tracking accuracy. This milestone continues a long-standing partnership in tower automation, which began in 2009 with the commissioning of the first Advanced Surface Movement Guidance and Control System (A-SMGCS) for Deutsche Flugsicherung (DFS).

OneControl aligns with the European ATM Master Plan’s Common Project 1 and includes features such as Airport Safety Nets, Shadow Routing, and Silent Coordination. The implementation followed rigorous testing and integration with airport systems. Hamburg Airport’s Director of Aviation, Dirk Behrens, highlighted its role in managing increasing air traffic demands while maintaining high safety and efficiency standards.

This is the first comprehensive deployment of OneControl in Germany, reinforcing ADB SAFEGATE’s commitment to innovation in tower automation. Hamburg Airport, the largest in northern Germany, handled 13.6 million passengers in 2023 and continues to recover post-pandemic, with direct flights to up to 120 destinations.

Atlante has inaugurated fast and ultra-fast EV charging stations at Torino Airport (Italy), developed in partnership with SAGAT S.p.A. to promote zero-emission mobility at one of Northern Italy's key airport hubs. The new infrastructure includes 19 electrified stalls powered entirely by renewable energy, with charging capacities ranging from 22kW to 400kW. These stations cater to passengers, taxis, rental cars, and public transport vehicles and are accessible 24/7, including for users with reduced mobility.

Drivers using Atlante's charging stations at the Bye&Fly parking area will receive up to one hour of free parking. This expansion strengthens Atlante's presence in Italy's major airports, where it already operates charging stations at Rome Fiumicino, Milan Linate, and Malpensa, reaching over 50 active charging points.

Atlante Italia CEO Gabriele Tuccillo highlighted the company's commitment to sustainability, technological innovation, and accessibility, while Torino Airport CEO Andrea Andorno emphasised the role of collaborative partnerships in advancing decarbonisation efforts. Local officials and industry stakeholders attended the inaugural ceremony, reinforcing a shared commitment to sustainable mobility.

Alstef Group has completed a major baggage handling system (BHS) and security screening upgrade at Henri Coandă International Airport (Romania). The project, awarded through a public tender by Bucharest National Airports Company (CNAB), took two years to complete and included 56 new check-in conveyors, 12 self-service bag drops, an outbound sortation system with five Standard 3 screening machines, two new make-up carousels, and a transfer connection to the domestic terminal. Alongside technology upgrades, Alstef Group managed civil works, HVAC, and infrastructure expansions. The company has also signed a five-year operations and maintenance contract with CNAB, reinforcing its expansion in Eastern Europe. Henri Coandă International Airport, Romania's largest and busiest airport, now benefits from enhanced baggage processing efficiency and security screening.

Calgary International Airport (YYC) is set to become the first airport in Canada with a high-performance 5G private wireless network through a 10-year partnership with TELUS. The private 5G network will provide enterprise-grade, low-latency connectivity across the entire airport, improving passenger experience, streamlining operations, and preparing for future technological advancements.

The network will be deployed in phases, with initial operations beginning on 1 May 2025. The project leverages TELUS' existing infrastructure while introducing new coverage enhancements both inside and outside the terminal to ensure seamless wireless connectivity for all airport users. The initiative supports YYC's position as one of Canada's fastest-growing airports and sets a new benchmark for digital transformation in aviation infrastructure.

TELUS highlights the project as a key step in Canada's digital future, enhancing efficiency, security, and resilience in airport operations. YYC expects the private 5G network to enable greater productivity and sustainability, addressing the increasing need for modernised connectivity beyond fixed connections and Wi-Fi.

Boston Logan International Airport (Massachusetts, United States) has introduced Oscar Sort, an AI-powered recycling assistant from Intuitive AI, to improve waste management and sustainability. Installed in high-traffic areas across three terminals, Oscar Sort uses real-time image recognition to guide passengers in proper waste disposal, increasing recycling accuracy, minimising contamination, and reducing costs associated with improper sorting.

The initiative aligns with Massport's goal of reaching net zero emissions by 2031. Beyond environmental benefits, Oscar Sort provides data-driven insights to optimise material flow, allocate janitorial resources efficiently, and improve overall labour productivity. Massport CEO Rich Davey highlighted the role of sustainable technology in airport operations, while Intuitive AI's CEO Hassan Murad emphasised the system's contribution to efficiency and passenger experience.

Dallas Love Field Airport (Texas, United States) has become the first in the world to install Energy Capturing Pods (ECPs), a new technology developed by JetWind Power Corporation that converts aircraft-generated wind into renewable energy. The system, which captures jet exhaust and transforms it into a sustainable power source, aims to enhance energy resilience and reduce waste.

Following three years of testing from 2021 to 2024, the City of Dallas agreed to install 13 ECPs over three years, with five already operational and eight more planned. The pods are expected to relieve pressure on Texas's energy grid while supporting the state's renewable energy initiatives. Since November 2024, the airport has also introduced two charging stations powered by the ECPs, which have already logged 10,000 uses.

JetWind's technology has drawn international interest from countries including Australia, Brazil, Ecuador, Switzerland, the United Kingdom, and France, as well as large-scale projects like NEOM. The company plans to expand its presence globally in 2025.

The first commercial batch of ECPs was manufactured in August 2024 at RTT Manufacture in Rockwall, Texas. JetWind envisions further applications of its technology across aviation, heliports, rail, and road infrastructure, with potential military uses. The project positions Dallas Love Field as a pioneer in integrating sustainable energy solutions into airport operations.

Portland International Airport (Portland, United States) has introduced CLEAR biometric identity verification, enhancing security and streamlining travel. The initiative will create 53 jobs and contribute over USD 3 million annually to the local economy.

CLEAR operates in 59 airports nationwide, serving 27 million members through its CLEAR Plus membership, which allows expedited identity verification using biometric data such as eyes or fingerprints. Members access dedicated lanes and are escorted by a CLEAR Ambassador to TSA security, reducing the need for traditional ID checks.

Port of Portland's chief aviation officer, Dan Pippenger, highlighted the demand for CLEAR at PDX, aligning with the airport's efforts to enhance efficiency and security. Membership costs USD 16 per month when billed annually, with discounts for military personnel, veterans, government officials, and select airline loyalty members.

CLEAR CEO Caryn Seidman-Becker expressed enthusiasm about improving the PDX travel experience. The expansion follows CLEAR's December 2024 launch at Hartsfield-Jackson Atlanta International Airport (ATL), extending expedited security to both domestic and international terminals.

The King Salman International Airport Development Company (KSIADC) and Huawei have signed a Memorandum of Understanding (MoU) to drive smart aviation innovation at King Salman International Airport (Riyadh, Saudi Arabia). The partnership, aligned with Saudi Arabia's Vision 2030, aims to integrate AI, IoT, and Private 5G-Advanced (5G-A) to enhance operational efficiency, improve passenger experiences, and establish the airport as a global aviation hub.

King Salman International Airport, spanning 57 km², is set to become one of the world's largest aviation hubs, featuring six runways, six terminals, a private aviation hub, and a logistics centre, along with an integrated airport city that includes residential, hospitality, retail, and industrial facilities. The collaboration with Huawei will introduce AI-powered digital guest platforms, predictive analytics, and advanced biometrics to streamline passenger services and airport operations.

Huawei, which showcased its digital transformation solutions at LEAP 2025 in Riyadh, Saudi Arabia, emphasised that the partnership will create a next-generation smart airport while supporting Saudi Arabia's strategy to become a global logistics and tourism hub. This initiative reinforces the critical role of technology-driven collaborations in shaping the future of aviation.

Doha Hamad International Airport (Qatar) has launched autonomous vehicle trials in collaboration with Qatar Aviation Services (QAS), MATAR, and Qatar Science & Technology Park (QSTP) to enhance airside operations. The initiative, the first of its kind in the region, aims to improve efficiency, safety, and sustainability by integrating autonomous buses and baggage tractors equipped with GPS, AI-driven systems, intelligent sensors, and LiDAR technology.

The proof-of-concept trials began on 16 February 2025 with autonomous staff buses, which will operate 24/7 under diverse weather conditions with real-time monitoring and automated charging. If successful, the project will pave the way for expanding Qatar's autonomous transportation framework, aligning with Qatar National Vision 2030.

Officials from Hamad International Airport, QAS, and QSTP highlighted the importance of digital transformation and smart mobility in shaping the future of aviation. Hamad International Airport, which was named "World's Best Airport" at the SKYTRAX World Airport Awards in 2024, continues to position itself as a global leader in innovation and passenger experience following its recent expansion. The initiative reflects Qatar's commitment to advancing technology and sustainable airport operations.

Noida International Airport (DXN) (Uttar Pradesh, India) has selected Kyndryl, the world's largest IT infrastructure services provider, to manage its technology operations and 24/7 IT support. Kyndryl will implement AI-powered automation through Kyndryl Bridge, ensuring real-time monitoring, cybersecurity protection, and operational efficiency.

As a greenfield airport, Noida International Airport aims to deliver a seamless passenger experience, integrating Swiss technology and Indian hospitality. The first phase will feature one runway and one terminal, handling 12 million passengers annually, with future expansion to 70 million passengers per year.

Kyndryl will support the airport's technology architecture, security, and risk management, helping it achieve best-in-class digital infrastructure. The partnership aligns with India's national connectivity agenda, ensuring the airport is well-equipped for future growth.

Christchurch Airport (New Zealand) has introduced the country's first electric fire truck, the Rosenbauer RT (Revolutionary Technology), marking a major step in its zero-emission fleet transition. It is also the first electric fire truck at any airport in the Southern Hemisphere, reinforcing Christchurch Airport's sustainability leadership.

The Rosenbauer RT replaces a diesel first-response vehicle and is part of the airport's plan to achieve a fully electric emergency fleet by 2035. While fully electric, the truck includes a small backup range extender generator for prolonged emergency situations.

At the launch event, the airport also announced an agreement with Rosenbauer to acquire a second, larger e-Panther electric fire truck in 2026, further enhancing its firefighting capabilities. Airport CEO Justin Watson emphasised that the investment reflects the airport's commitment to both safety and environmental leadership, ensuring world-class emergency response while reducing carbon emissions.

Publisher's note: The articles in this special report, compiled for **inter airport Europe**, are a few select samples from the biweekly **Momberger Airport Information** newsletter, published since 1973. The newsletter is an advertising-free, global airport news service that consists of 9 modules and allows subscribers to customize their own newsletter package. The modules that make up the biweekly newsletter are Airport Development (DEV), Calendar of Events (CAL), and the subscriber-selectable modules Airport Operations (OPS), Management, Ownership & Finance (MGT), 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, a sample of a complete newsletter issue, and to order an annual subscription, please visit www.mombergerairport.info