

Weekly Aviation Headline News



A321neo Final Assembly Line

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“2023 was a landmark year for Airbus’ Commercial Aircraft business.”

Strong year 2023 for Airbus – investment into hydrogen technologies

Airbus saw its order backlog increase to over 8,000 aircraft in 2023

In 2023, Airbus delivered 735 commercial aircraft to 87 customers across the globe, showcasing a strong performance even in a challenging operational landscape. The Commercial Aircraft division received a total of 2,319 gross new orders, with a net total of 2,094. Consequently, by the end of 2023, their backlog of orders amounted to 8,598 aircraft.

“2023 was a landmark year for Airbus’ Commercial Aircraft business with exceptional sales and deliveries on the upper end of our target,” said Guillaume Faury, Airbus CEO. “A number of factors came together to help us achieve our goals, including the increased flexibility and capability of our global industrial system, as well as the strong demand from airlines to refresh their fleets with our most modern and fuel-efficient aircraft.” Guillaume added: “This is a remarkable achievement. My thanks goes to our customers, supplier partners and all the Airbus teams who

made it happen.”

“We originally anticipated aviation to recover sometime in the 2023-2025 timeframe, but what we saw in 2023 was, alongside the single-aisle market, widebody return much sooner than expected, and with vigour”, said Christian Scherer, Airbus’ newly appointed CEO, Commercial Aircraft. “A big thumbs up to our commercial and regional teams, and importantly, a big thank you to our customers for their trust and partnership. We have never sold as many A320s or A350s in any given year, not to mention welcoming seven new customers for the A350-1000. Travel is back and there is serious momentum!” Christian added: “I’m proud to say there are now 735 more fuel-efficient Airbus jets flying today, paving the way to our lower carbon future. It’s the orders we win today that will support us in investing in innovative and even more sustainable solutions tomorrow.”

Investment into hydrogen technologies

Also, Airbus is enhancing its presence in Germany by inaugurating a ZEROe Development Centre (ZEDC) focused on hydrogen technologies at its Stade facility. This center will expedite the advancement of composite hydrogen system technologies for the storage and distribution of cryogenic liquid hydrogen. Airbus has a longstanding history of pioneering composite technologies in Germany, encompassing both materials and manufacturing processes.

The top priority for the Stade ZEDC is the advancement of cost-effective lightweight hydrogen systems, such as cryogenic hydrogen tanks, utilizing composite materials. This technological progress will encompass the entire spectrum, including the development of individual components, assembly, and manufacturing-related

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testing of liquid hydrogen (LH2) composite tanks. The tank development efforts are closely coordinated with other Airbus entities at the national level.

“Establishing a composite related ZEDC in Germany strengthens our Research & Technology footprint in the country and ensures the involvement, from the start, of leading experts to support our decarbonisation ambition. Furthermore, the ZEDC will benefit from the wider composite research and development ecosystem such as the Airbus subsidiary Composite Technology Center (CTC GmbH), the CFK NORD in Stade as well as from further synergies from space and maritime activities”, said Sabine Klauke, Airbus Chief Technical Officer.

The ZEDC located in Stade receives support from public funding sources such as LuFo and Lower Saxony funding, and it will also be integrated with the planned Innovation and Technology Centre Hydrogen (ITZ) in Northern Germany. This collaboration aims to harness the potential of hydrogen technology and play a role in reducing carbon emissions within the aviation industry.

The ZEDC in Stade is part of a broader network

“Establishing a composite related ZEDC in Germany strengthens our Research & Technology footprint.”



First A321 aircraft assembled at Toulouse FAL in flight line

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of development centers dedicated to advancing technologies that promote the decarbonization of the aerospace sector. It will complement the ongoing efforts at Airbus facilities in Bremen

(Germany), Nantes (France), Madrid (Spain), and Filton (UK) in order to achieve the goal of having a hydrogen-powered aircraft in operation by 2035.

AIRCRAFT & ENGINE NEWS

IBA analyses Boeing 737 MAX 9 grounding

On January 5, 2024, Alaska Airlines flight 1282 performed an emergency turnback of one of its Boeing 737 MAX 9 aircraft with registration N704AL and Manufacturer's Serial Number 67501. The loss of the emergency exit door plug from the left-hand side of the aircraft caused a rapid decompression of the cabin and left a large hole in the side of the fuselage. The aircraft returned safely and there were no injuries sustained onboard the aircraft, nor on the ground. The plug is installed in place of an emergency exit door, which is installed and activated in certain aircraft cabin configurations. The unsafe condition created by the incident quickly resulted in the Federal Aviation Administration (FAA) issuing an emergency Airworthiness Directive (AD), grounding the affected aircraft. The European Aviation Safety Agency (EASA) has since adopted the US regulator's directive. IBA uses data from its IBA Insight data intelligence platform to assess the situation and analyse the impact of recent events.

What does the grounding order require, and which aircraft are affected?

The FAA's grounding order requires that all Boeing 737 MAX 9 aircraft with the emergency exit door plug installed must be inspected before

EVA Air finalises order for 18 A350-1000s and 15 A321neos with Airbus



Image of Airbus A350 in EVA Air livery

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Taiwan's EVA Air has finalised a firm order with Airbus for the purchase of 18 long-range A350-1000s and 15 single-aisle A321neos. This sees the airline become the latest global carrier to select the A350-1000 for its future long-haul requirements. In addition, the A321neo aircraft will bring new levels of efficiency for the carrier's regional network. The long-range A350 is available in two sizes, with the A350-900 typically seating up to 350 passengers in a standard three-class configuration and the larger A350-1000 seating up to 410 passengers. Powered by versions of the latest generation Rolls-Royce engines, the aircraft can fly up to 9,700 nautical miles / 18,000 kilometres non-stop, using 25% less fuel than previous-generation types and with a similar reduction in carbon emissions. For passengers, the A350 offers the highest levels of in-flight comfort with the quietest cabin, new lighting systems and the latest in-flight connectivity. The reduced cabin pressure also ensures that passengers arrive in better shape. The A350 family has won more than 1,000 firm orders from 60 customers worldwide, with more than 570 aircraft currently in the fleets of 39 operators, flying primarily on long-haul routes. The A321neo is part of the A320neo family, incorporating the latest technologies including new-generation engines, Sharklets and cabin efficiency enablers, which together deliver 20% fuel savings. With over 5,600 orders from more than 100 customers since its launch in 2016, the A321neo has captured a 65 percent share of the market.

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further flight. This is notwithstanding any special flight permits, which if requested would require the aircraft to be unpressurised during flight. The order applies to aircraft in any category, so this is also expected to impact the business jet variant of the 737 MAX, the MAX 9 BBJ, although there is currently only one aircraft in service. Using data from IBA Insight, it has been estimated that around 85% of the global fleet of 737 MAX 9 aircraft have the mid-exit door plug installed.

Which airlines and aircraft are affected by the grounding?

The majority of in-service Boeing 737 MAX 9 aircraft are operated in North America, specifically the US, with 144 aircraft representing two-thirds of the 216 aircraft fleet. The FAA order only affects aircraft with the mid-exit door plug installed, which is common in the aircraft of full-service carriers with lower-density cabin configurations. For example, Alaska Airlines configures its 737 MAX 9 with 178 seats across three classes according to IBA Insight. United Airlines, the largest operator of the type, uses a similar configuration with 179 seats, again across three classes. The MAX 9 represents around 5% of United's overall fleet size across both the mainline and United Express operations. The entire MAX 9 fleets of Alaskan and United are expected to be impacted by the order, which has already caused a swathe of flight cancellations and is expected to cause continued service disruption at these carriers whilst the required inspections are carried out. Alaska Airlines operates a smaller fleet of 65 737 MAX 9s compared with United, however, the grounding is more impactful on its operation, with the affected model representing approximately 20% of its fleet, although some aircraft have already been cleared for return to service following inspection. Airlines using their MAX 9 aircraft in higher density configurations, for example, Indonesia's Lion Air, activate the mid-exit door to enable the aircraft to be operated with a higher seat count. As the door is being used and therefore not plugged, airlines using the MAX 9 in this way will not be impacted, even if their respective aviation authorities choose to adopt the FAA's directive.

What will be the likely impact for Boeing?

Boeing currently has 104 737 MAX 9 aircraft on order backlog, the least of any Boeing 737 MAX model. In terms of capacity, the MAX 9 sits between the most popular Boeing 737 MAX 8 and the largest 737 MAX 10 variants. However, in terms of demand, the MAX 9 lags all other variants, particularly since the launch

Supernal debuts eVTOL product concept at CES 2024



Supernal eVTOL aircraft S-A2 debuted at CES 2024 in Las Vegas, Nevada, U.S.A.

© Supernal

Supernal LLC – Hyundai Motor Group's Advanced Air Mobility (AAM) company – has unveiled S-A2, its electric vertical take-off and landing (eVTOL) vehicle product concept at CES 2024. The pilot-plus-four-passenger vehicle marks the latest milestone in Supernal's roadmap to commercialise safe, efficient and affordable everyday passenger air travel. S-A2 builds on the company's vision concept, S-A1, which it debuted at CES 2020, bringing together the innovative aerospace engineering and Hyundai Motor Group automotive aesthetic design to create a new mode of transportation to get people in urban areas from point A to point B faster. Supernal will achieve commercial aviation safety levels and enable affordable manufacturing of its vehicles as it prepares to enter the market in 2028. S-A2 is a V-tail aircraft designed to cruise at 120 miles-per-hour at a 1,500-foot altitude to meet typical city operation needs of 25- to 40-mile trips, initially. It features a distributed electric propulsion architecture and has eight all-tilting rotors. At entry into service, Supernal's vehicle will operate as quietly as a dishwasher: 65 dB in vertical take-off and landing phases and 45 dB while cruising horizontally. The vehicle is designed with a priority on safety and a focus on sustainability and passenger comfort. Engineered to achieve the global commercial aviation standard of safety, it has a robust airframe structure including redundant components in critical systems such as powertrain, flight controls and avionics. The all-tilting rotor configuration will power the vehicle through both the vertical-lift and horizontal-cruise phases of flight with unique efficiency. To maintain superior quality while also being cost-effective, the vehicle will be manufactured leveraging Hyundai's mass production capability. As Supernal continues to optimise its vehicle for certification, mass production and expanded use cases, the company is also focused on interior modularity and battery upgradability. This includes the ability to replace the battery module as technology advances. Supernal's engineering teams partnered with Hyundai Motor Group's automotive designers on S-A2's aesthetics – blending design with functionality – that will attract aviation operators and create the preferred AAM passenger experience. Different colour palettes and materials delineate distinct pilot and passenger sections of the vehicle. Aviation-grade, energy-absorbing components are integrated into the seat frames, and contribute to the overall clean, minimalist design. Lighting transitions throughout phases of flight allow the cabin to feel larger and to provide visual cues, such as where to enter and exit the vehicle. "S-A2 is a true representation of 'auto meets aero.' Drawing on the competence of Supernal's top aerospace engineers and Hyundai Motor Group's world-renowned automotive designers to create human-centric design that maximises passenger experience and safety," said Luc Donckerwolke, President, Chief Design Officer and Chief Creative Officer, Hyundai Motor Group.

of the MAX 10. The MAX 7 and MAX 10 are not yet certified nor in production, and the MAX 8 therefore accounts for the majority of deliveries. It is unlikely that there will be any meaningful impact to 737 MAX deliveries and IBA also does not expect the recent events to impact the backlog for the MAX 9. Customers will remain committed to the type in IBA's opinion. It is

likely that the grounded aircraft will return to service in the coming days and weeks as the affected fleet of MAX 9s is examined and cleared for service. However, this event draws further attention and scrutiny on Boeing, as it comes after a series of issues around quality control at the aircraft manufacturer and its suppliers.

AIRCRAFT & ENGINE NEWS

Sirius Aviation to launch world's first hydrogen-powered VTOL aircraft

Swiss aviation startup, Sirius Aviation AG has officially announced the launch of the revolutionary Sirius Jet – the world's first hydrogen-powered VTOL aircraft. A game-changing aircraft, crafted in collaboration with BMW's Designworks and Sauber Group, this marks a major milestone in sustainable aviation, emphasising the company's commitment to innovation, sustainability and safety. The Sirius Jet is a high-performance, zero-emission VTOL aircraft, propelled by a hydrogen-electric propulsion system. Leveraging jet aerodynamics with airplane and helicopter versatility, it achieves extended flight distances, impressive speeds, and high altitudes at near-silent levels. In 2025, the Sirius Jet will take flight in two versions: Sirius Business Jet, tailored to private jet needs and Sirius Millennium Jet, crafted for commercial aviation. A revolutionary leap that will reshape the global transportation industry. Sirius Aviation AG's hydrogen-powered regional concept is distinct from existing eVTOLs (electric vertical take-off and landing aircraft) in that it relies purely on electric power, not a fuel tank. Sirius is designed with a hydrogen power plant which supplies 100% of its power, allowing the stealthy jet to rely on a battery merely for 90 seconds per flight. On Wednesday, January 17, 2024, at Payerne Airport in Switzerland, Sirius Aviation AG is launching the first public inaugural ignition and grand unveiling of the aircraft's ground-breaking hydrogen-electric ducted fan propulsion system.



Sirius Jet

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Atlas Air enhances cargo fleet with Boeing 777 Freighter for MSC



Atlas Air has taken delivery of the fourth 777F on behalf of MSC

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Atlas Air, a subsidiary of Atlas Air Worldwide Holdings, has announced the delivery of a Boeing 777 Freighter which it will operate on behalf of its customer MSC Mediterranean Shipping Company SA, under a long-term ACMI (aircraft, crew, maintenance, insurance) agreement. Atlas Air now operates four 777 Freighters worldwide on behalf of MSC, enhancing the shipping company's global reach and capacity. The initial 777F was delivered in November 2022, followed by the second and third deliveries in July and November 2023, respectively. This new aircraft will complement the existing weekly service, including a route from Hong Kong (HKG) to Dallas/Fort Worth (DFW). Anders Matikka, Vice President, Air Cargo, MSC, expressed the significance of this milestone, stating, "This latest 777 Freighter delivery represents a pivotal moment and significant milestone for our company as it marks the completion of our first set of aircraft in partnership with Atlas Air.

This new and enhanced fleet will empower us to elevate our offering, ensuring enhanced support for our valued clients and a stronger presence in the market." The Boeing 777 Freighter is renowned for being the longest-range twin-engine freighter in operation, known for its high reliability, fuel efficiency, and lower maintenance and operating costs. With a range of 4,970 nautical miles (9,200 km) and a maximum structural payload of 235,900 pounds (107 tonnes), the 777 Freighter also meets noise-sensitive airport accessibility standards worldwide.

MRO & PRODUCTION NEWS

PTC Industries and Nasmyth sign MoU to integrate supply chain solutions

PTC Industries (PTC) and Nasmyth have signed a memorandum of understanding (MoU) for collaboration to leverage their capabilities for offering global solutions to defence and aerospace customers in India and globally. The MOU will see Nasmyth and PTC work together in support of the 'Make in India' Atamirbhar Bharat programme leveraging each other's capabilities. This cooperation will help PTC expand its capabilities to better support Indian customer requirements and successfully execute those projects. The partnership will focus on developing casting, machining, assembly and thermal precision engineering capabilities in India. The collaboration will help to increase capacity in the market, signal a move towards vertically integrated supply chain solutions in India and in turn provide global solutions to OEM's looking for suppliers to de-risk their current supply chains while providing capacity growth opportunities. PTC has a state-of-the-art manufacturing campus in Lucknow and is one of the world's leading suppliers of high-precision metal components for critical and super-critical operations across the aerospace and defence industries. PTC is currently participating in various programmes requiring components, sub-assemblies and assemblies for various defence, land, sea and air platforms and is also working on a number of major projects for the Indian Government and for a growing number of global OEM's. Nasmyth Asia's new manufacturing facility in Bangalore, offers turnkey manufacturing and engineering solutions that exceed the highest industry standards offering bespoke machining services including assembly and system integration.



Official signing of the MOU between Nasmyth and PTC

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MRO & PRODUCTION NEWS

OnFlight approved as Embraer authorised service centre

OnFlight, Inc. (OnFlight) has received approval and authorisation as an Embraer Authorized Service Centre by Embraer Executive Jets. This milestone marks a pivotal expansion in OnFlight's role within Embraer's strategic network of MRO services, specifically focusing on Embraer aircraft. OnFlight, a Part 135 charter operator since 2000, has been operating Embraer aircraft since 2011, with an exclusive commitment to Embraer since 2016. With this announcement, OnFlight's strategic vision extends to encompass Part 145 repair station operations, entirely dedicated to servicing Embraer aircraft. Operations are slated to commence early in the first quarter of 2024 at Cincinnati Lunken Airport. David Crocket, President of OnFlight, elucidated their rationale, stating, "We have deliberately chosen to concentrate exclusively on Embraer's product line due to our extensive familiarity with these aircraft, the state-of-the-art technology Embraer employs, and the overall quality of their design and manufacturing. This unwavering focus ensures an exceptional level of expertise and efficiency, differentiating us from other independent service providers that offer generic servicing for a multitude of aircraft types, each presenting unique customer support challenges."

Artemis Aerospace opens new hubs in Florida and California



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Global aviation component solutions specialist Artemis Aerospace has opened two new hubs in the U.S. Located in Miami, FL and Los Angeles, CA, Artemis' stateside hubs will streamline orders and deliveries for U.S.-based customers and provide a quicker and even more efficient service. The company, which was established in 1999 by Jim and Deborah Scott and has headquarters in the UK, operates a global, solution-led service. Its flexible approach has earned the company an enviable reputation across multiple disciplines, including component supplies, component repairs, lessor support, flight simulation hardware support, consignment stock management and global aircraft logistics. Jim Scott, Owner, Co-Founder and Managing Director of Artemis Aerospace, stated: "This marks a new chapter for Artemis as we strengthen our global offer. Combined with our establishment of U.S. banking facilities for the convenience of U.S. customers, our new hubs will guarantee that we can continue to provide the highest quality service across the Americas, shorten delivery times and offer quick and convenient solutions."

GKN Aerospace boosts sustainable manufacturing with £50 million investment in Sweden



© GKN Aerospace

GKN Aerospace has strengthened its commitment to sustainable manufacturing by investing £50 million (600 million SEK) in cutting-edge additive fabrication technology in Trollhättan, Sweden. The Swedish Energy Agency's Industriklivet initiative will contribute £12 million (152 million SEK) towards this investment, aimed at transforming production methods and reducing raw material usage by up to 80%. The new technology will be integrated into GKN Aerospace's Trollhättan facility in Sweden and is set to become operational later in 2024. Currently, aircraft engine components rely on extensive castings and forgings, resulting in up to 80% of the material being machined away before achieving the final form. By employing additive technology, which involves constructing layer-by-layer using metal wire or powder fused together with lasers, GKN Aerospace can significantly reduce raw material wastage, energy consumption and shipping within the production process. This approach leads to substantial reductions in emissions, costs, and lead times. GKN Aerospace has been at the forefront of additive fabrication for nearly two decades and maintains significant research and technology centres in Sweden, the UK, and the

U.S. Thanks to the support from Industriklivet, the new additive production centre in Sweden is expected to create approximately 150 new job opportunities for operators, technicians, and engineers at the Trollhättan facility. Peter Engdahl, Head of Research, Innovation and Business Development at the Swedish Energy Agency said: "GKN Aerospace's solution will be able to contribute to a reduced use of raw materials and create opportunities to fundamentally change the design, making the aircraft engine lighter and more efficient. This is the first time this technology is being tested for this component size and we see the potential for it to spread globally and also in other areas."

MRO & PRODUCTION NEWS

VoltAero chooses Safran electrical wiring to equip Cassio 330 certification aircraft

Safran Electrical & Power has been selected to supply the electrical wiring on VoltAero's Cassio 330 electric-hybrid certification aircraft, confirming Safran's role as a leading partner in VoltAero's clean-sheet e-airplane. With this contract, Safran Electrical & Power will design and produce electrical wiring for the propulsion system and power distribution system – in particular, the high-voltage wiring – on the Cassio 330 to be utilised in the certification programme of this first member of VoltAero's aircraft family. The wiring will be qualified for power ratings up to 800 Volts in continuous operation and is to be designed to resist partial discharge phenomena at altitude. At the equivalent size of cabling produced today for traditional aircraft, the Cassio wiring will carry power levels twice as high. "The electrical wiring is a critical element of our Cassio aircraft and we've selected Safran Electrical & Power based on the company's expertise – particularly at high power levels," explained Jean Botti, VoltAero's CEO and Chief Technology Officer. "This marks another important step toward the Cassio 330's certification and service entry." Safran Electrical & Power will provide its technical expertise to support VoltAero in obtaining the SOF (Safety of Flight) validation – a pre-requisite for carrying out the Cassio 330's certification flight tests. This contract extends a partnership signed in 2020 involving the Cassio 330's electric-hybrid propulsion system. Safran Electrical & Power is to supply the propulsion system's ENGINEUS 100 electric motor, which delivers a maximum power of more than 150-kW at take-off. The ENGINEUS 100 integrates its own control electronics as well as an air-cooling system, ensuring an optimal size-to-power ratio.

FINANCIAL NEWS

Crane Company acquires Vian Enterprises for US\$103 million

Crane Company (Crane) has acquired Vian Enterprises, Inc. (Vian) for approximately US\$103 million on a cash free and debt free basis. Founded in 1968, Vian is a global designer and manufacturer of multi-stage lubrication pumps and lubrication system components technology for critical aerospace and defence applications with sole-sourced and proprietary content on the highest volume commercial and military aircraft platforms. Through August 2023, it is estimated that Vian had trailing 12-month sales of approximately US\$33 million and adjusted EBITDA of approximately US\$8 million, with an order backlog exceeding US\$100 million. Crane financed the acquisition primarily with proceeds

321 Precision Conversions earns EASA approval for A321-200PCF

321 Precision Conversions has reported that the European Union Aviation Safety Agency (EASA) has granted approval for the A321-200 freighter conversion (A321-200PCF) FAA STC ST02716SE. This certification further affirms the excellence of Precision Conversions' design and allows for the operation of the A321-200 freighter conversion on crucial European routes. 321 Precision Conversions has already secured approvals from Chinese and Malaysian authorities for its FAA STC. The fully supported A321-200PCF surpasses all expectations, providing (14) A-Code 88 x 125-inch main deck positions and (10) ULD positions in the lower hold when equipped. This enhanced capability is achieved by reducing the operating empty weight (OEW) instead of necessitating costly weight upgrades. The absence of permanent ballast installation results in reduced fuel consumption, a smaller carbon footprint, and an increased standard payload. The A321-200PCF holds certification for V2500 and CFM engines with multiple thrust ratings. 321 Precision Conversions is a collaborative effort between Aircraft Transport Services Group and Precision Aircraft Solutions, dedicated to delivering the A321-200PCF freighter conversion worldwide. Precision Aircraft Solutions, known for setting the global standard for B757-200 conversions, continues its tradition of industry-leading passenger-to-freighter cargo conversions with the A321-200.



A321-200PCF interior

© 321 Precision Conversions

FINANCIAL NEWS

European Commission and the European Investment Fund join forces



The European Commission and the European Investment Fund (EIF) join forces to boost investment in defence innovation © EIF

The European Commission (Directorate General for Defence Industry and Space - DEFIS) and the European Investment Fund (EIF) have joined forces to step up their support to EU's defence and security through the launch of the Defence Equity Facility. The initiative, consisting of €100 million from the European Defence Fund and an additional €75 million from the European Investment Fund, will significantly expand EIF's investment capacity to support, in the next four years, private equity and venture

capital funds with strategies covering technologies relevant to defence. This €175 million initiative is expected to attract additional private investments in the funds it supports, thereby mobilising, in total, c. €500 million in support of European companies. The Defence Equity Facility aims to stimulate the development of an ecosystem of private funds investing in defence innovation. The initiative will focus on technologies with dual-use potential encompassing both civilian and defence applications, to further support the EU's security, in line with InvestEU's objectives. This new funding opportunity will be accompanied by capacity-building activities support managers in the development and management of their funds. (see EUDIS webpage). This initiative strengthens the cooperation between the Commission and the EIF in support of the aerospace and defence ecosystem, initiated with the launch of the CASSINI Fund in January 2022 to bolster investments in space companies. European Commissioner Thierry Breton stated: "With the Defence Equity Facility, we deliver a first step in improving access to finance for the defence sector. This initiative will contribute to sending a positive signal to the market and stimulate private investments in support of defence innovation. It is a key pillar of the EU Defence Innovation Scheme, which aims to enhance Europe's technological competitiveness and security, by supporting to a thriving ecosystem of defence start-ups and SMEs. It is a first step, and we will continue to work with the EIB and EIF to support access to finance in the defence sector." (€1.00 = €1.16 at time of publication).

FINANCIAL NEWS

from its revolving credit facility. Crane's President and CEO, Max Mitchell, said: "We are very excited to announce this transaction. Vian is highly complementary to our Fluid Solution within the Aerospace & Electronics segment, significantly expanding our portfolio of mission-critical aerospace flow control products. Vian has strong positions on the most attractive commercial and military aircraft platforms today and combined with our existing fluid and thermal management capabilities, further strengthens our positioning for future content opportunities on engines, gearboxes and auxiliary power units. We expect that Vian's margins will be accretive to the Aerospace & Electronics' segment EBITDA margins immediately, with a long-term sales growth rate in line with the segment's previously disclosed 7% to 9% long-term CAGR. Vian, along with the other acquisitions that we continue to pursue, meets our clearly defined strict financial and strategic acquisition criteria." Crane will provide further updates on the Vian acquisition during the fourth quarter earnings call. (£1.00 = US\$1.26 at time of publication).

Spanish government invests €5.4 million in Crisalion Mobility

Crisalion Mobility, formerly UMILES Next, a Spanish leader in the design and development of advanced electric mobility solutions, has been selected by CDTI Innovación (Centre for Technology Development and Innovation), under its Innvierte programme, and by Cuyam (Grupo Valdemira) to receive a total investment of €5.4 million (£4.7 million). CDTI Innovación is a Spanish public organisation which falls under Spain's Ministry of Science, Innovation and Universities and supports innovative projects in these areas, offering advice and public funding through subsidies and partially repayable financial support. On this occasion, Crisalion Mobility is one of the companies selected to receive capital. "This investment agreement is a major step forward in Crisalion Mobility's growth plan. The company continues to deliver on its roadmap, offering an unrivalled approach to air and ground mobility through strategic technologies that will be crucial to the development of the vehicles of the future. The Spanish Government has offered its constant, invaluable backing for innovation, playing a key role in supporting successful projects which contribute to progress in technology and economic prosperity in the field of mobility," commented Carlos Poveda, CEO of Crisalion Mobility. This investment is a major milestone in Crisalion Mobility's history, reflecting the Public Administration's recognition of the company. The CDTI, through its Innvierte Economía Sostenible initiative, supports and facilitates financing for technology companies, and CDTI Innovación aids the global expansion of R&D and innovation projects by Spanish companies and organisations. It also manages the participation of Spanish companies in global organisations such as Horizon Europe and Eureka, and in the science and space industry. Crisalion Mobility, formerly UMILES Next, continues to roll out its development programme for air and ground mobility solutions that will transform the way people move. BlueBull, an investment bank specialising in high-growth technology companies, is acting as exclusive financial advisor to Crisalion Mobility. The two are already working together on an upcoming €25 million (£21.6 million) Series B round.



Image of eVTOL aircraft INTEGRITY © Crisalion Mobility

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IFS, the global cloud enterprise software company, has released that **Kongsberg Aviation Maintenance Services AS** (KAMS), a leading supplier of maintenance, repair and overhaul (MRO) services within the aviation industry for both military and civil organisations has selected IFS Cloud to streamline operational efficiency and build long-term asset resilience. The use of IFS Cloud will enable KAMS to improve turnaround time (TAT) and reduce costs, helping to facilitate business expansion and new customer acquisition. The comprehensive functionality of IFS Cloud will also help KAMS optimise processes for enhanced productivity, allowing it to improve resource allocation, sourcing, planning, maintenance execution and financial reporting. Additionally, the implementation will enable the defence supplier to automate its order-to-cash process, encompassing customer quoting, planning, maintenance execution and invoicing, and thereby removing operational silos and manual labour. KAMS is set to deploy a comprehensive suite of IFS Cloud modules including functionality for maintenance, repair and overhaul (MRO), supply chain, projects, procurement, finance, CRM, and health safety and environment (HSE). Once fully deployed, IFS Cloud will cater to the needs of 500 users at four sites across Norway. IFS alliance partner, CGI, will help deliver the implementation.

Swiss-AS has announced a major achievement as the first B737 from **SunExpress** smoothly took off in the skies above Antalya, with its AMOSETL being used productively in SunExpress's environment. This marks two years of hard work, teamwork, and innovation from the initial lines of code to this moment. SunExpress makes history as the first airline to implement AMOSETL. The carrier's forward-thinking approach to innovation has made them invaluable partners in shaping the future of aviation technology. The success of AMOSETL is a result of strong collaboration. A unified and dedicated team comprising SunExpress and Swiss-AS, along with pilots, maintenance, and IT personnel, supported by Swiss-AS product owners, business consultants, and R&D experts, has been vital in bringing this vision to life. This blend of skills and expertise has paved the way for a seamless integration of AMOSETL into SunExpress' operations. As it celebrates this achievement, SunExpress is preparing for the next step forward. An upcoming upgrade to the latest version of AMOSETL promises new features, including the much-anticipated Cabin Mode. This upgrade aims to boost operational efficiency and the overall passenger experience, confirming SunExpress' position as a leader in aviation innovation.

MILITARY AND DEFENCE

Indonesia receives final batch of 18 Rafale fighters

The final segment of 18 Rafale fighters destined for Indonesia was officially delivered on January 8, 2024. This follows the previous deliveries, which occurred in September 2022 and August 2023, comprising the initial and second tranches of six and 18 Rafale fighters respectively. These deliveries mark the completion of the total aircraft ordered by Indonesia under the contract signed in February 2022



Rafale fighter

© Dassault Aviation

for the procurement of 42 Rafale aircraft. Eric Trappier, Chairman and CEO of Dassault Aviation, commented, "By selecting the Rafale, Indonesia has chosen a distinctive instrument for sovereignty and operational self-sufficiency, further strengthening its position as a significant regional power. This choice also reinforces ambitious industrial and academic collaborations. We are unwavering in our commitment to ensuring the success of this partnership, with a clear and enduring vision." With a rich history spanning over a century, Dassault Aviation has delivered more than 10,000 military and civil aircraft (including 2,700 Falcons) to over 90 countries. The company's global recognition extends to its expertise in the design, development, sales, and support of various aircraft, ranging from the Rafale fighter to the prestigious Falcon family of business jets, military drones, and space systems. In 2022, Dassault Aviation reported revenues amounting to €6.9 billion (£5.9 billion), supported by a workforce of 12,700 employees.

Lockheed Martin delivers first two Slovakian F-16 Block 70 jets



F-16 fighter jet

© Lockheed Martin

Lockheed Martin has successfully delivered the first two Slovakian F-16 Block 70 jets. These advanced aircraft represent not only a leap in technology but also a firm commitment to enhancing Slovakia's national security. These F-16 Block 70 jets, manufactured in Greenville, South Carolina, are a testament to advanced engineering and technology. With a current backlog of 135 jets, the production line serves as a cornerstone of national security, offering state-of-the-art F-16 fighter jet capabilities to allies worldwide. Furthermore, Bulgaria has signed a letter of offer and acceptance (LOA) for an additional eight jets for its fleet. Once the agreement is finalised, the backlog will increase by eight aircraft. Deliveries for Slovakia will continue through 2025 and the first group of jets, known as a ferry cell, is expected to arrive in Slovakia mid-2024.

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SAS Scandinavian Airlines (SAS) has reported that 1.6 million passengers travelled with SAS in December, a six-percent increase compared with the same month last year. SAS' capacity increased by almost 12% and RPK increased by 14%, compared to December 2022. The flown load factor for December was 73%. "1.6 million passengers travelled with SAS in December 2023, which represents a passenger volume increase of six percent compared to last year. In December, Skellefteå City Airport became the first individual airport in Sweden to join SAS's Corporate Sustainability programme and we hope this partnership will inspire other companies to join and be part of the journey to transform aviation for generations to come," said Anko van der Werff, President and CEO, SAS. SAS is also expanding its flight offerings and increasing capacity in the summer traffic programme. This summer, SAS will fly to over 130 destinations in more than 40 countries, with added frequencies to popular destinations in Europe, North America and Asia and nine new destinations in Europe.

The **International Air Transport Association** (IATA) has released data for November 2023 global air cargo markets indicating the strongest year-on-year growth in roughly two years. This is partly due to weakness in November 2022, but also reflects a fourth consecutive month of strengthening demand for air cargo. Global demand for air cargo, measured in cargo tonne-kilometres (CTKs), increased by 8.3% compared to November 2022. For international operations, demand growth was 8.1%. Capacity, measured in available cargo tonne-kilometres (ACTKs), was up 13.7% compared to November 2022 (+11.6% for international operations). Most of the capacity growth continues to be attributable to the increase in belly capacity as international passenger markets continue their post-COVID recovery. Compared to November 2019 (pre-COVID-19), demand is down 2.5% while capacity is up 4.1%. IATA noted that both, the manufacturing output and new export order Purchasing Managers Indexes (PMIs) – two leading indicators of global air cargo demand—continued to hover just below the 50-mark in November with small positive movements indicating a deceleration of the economic slowdown. Furthermore, global cross-border trade recorded growth for the third consecutive month in October, reversing its previous downward trend. Inflation in major advanced economies continued to soften in November as measured by the corresponding Consumer Price Index (CPI), centring around 3% year-on-year for the United States, Japan, as well as the EU, in November. In the meantime, China exhibited negative annual

INFORMATION TECHNOLOGY



Rolls-Royce and Aerogility team members

© Aerogility

Aerogility has reported the signing of a five-year enterprise-wide contract with multinational aerospace and defence company, **Rolls-Royce**, to supply its AI-based enterprise digital twin solution. Rolls-Royce utilise the Aerogility solution to develop highly complex forecasts that inform safe and trusted business decisions. The capability is applied across the entire Rolls-Royce value chain, including partners and customers, providing deep insights into asset lifecycles and carbon footprint. The new deal builds on Aerogility's relationship with multiple Rolls-Royce divisions, which have used Aerogility's solution to forecast the outcomes of strategic decisions. This success has been recognised by the Rolls-Royce teams working with Aerogility receiving two awards, the Defence President's Award, and the Sir Frank Whittle Medal. Nigel Yard, Head of Defence and OEMs at Aerogility, says: "We're incredibly proud of this vote of confidence from Rolls-Royce, which lays the groundwork for extending our service across the business. This contract demonstrates the value of both our software and team when it comes to tackling complex forecasting, planning, and decision-making challenges. Utilising Aerogility, the Rolls-Royce team run multiple 'what-if' scenarios in rapid, largescale simulations of the business. This delivers better decision-making for complex asset lifecycle management by quantifying opportunities to improve the performance of the Rolls-Royce services business."

Honeywell has renewed its contract with **Lufthansa Group** and welcomed Lufthansa Cityline as a user of Honeywell Flight Efficiency software. This cloud-based solution utilises deep data analytics to empower airlines and flight crews with actionable insights for reducing fuel



Lufthansa Cityline will unlock the potential of more efficient flight operations with Honeywell technology
© Honeywell

consumption and carbon emissions. The software offers specific guidance to pilots, ground personnel, and various stakeholders, aiding in informed decisions regarding fuel management, taxiing, flight procedures and their impact on other airline priorities like punctuality. Under this agreement, Lufthansa Cityline will harness historical flight data to enhance fuel-efficient flight operations. This access allows for comprehensive analysis of flight execution compared to initial plans, enabling corrective measures for upcoming flights. It provides flexibility for decision-making, analysis of historical anomalies, and addressing specific scenarios. Karen Miller, General Manager of Honeywell Connected Aerospace, stated, "Lufthansa Group has been a valued partner of Honeywell's for ten years, and this expansion strengthens our relationship by including more subsidiaries from the group. We are pleased that we can continue to improve the sustainability of airlines and reduce carbon emissions through Honeywell Flight Efficiency."

OTHER NEWS

growth in its CPI for the second time in a row. Air cargo yields (including surcharges) continued their significant upward trend (+8.9% since October). Rising yields are in line with improving air cargo load factors over recent months. This could be tied in part to booming e-commerce deliveries from China to western markets. "November air cargo demand was up 8.3% on 2022—the strongest year-on-year growth in almost two years. That is a doubling of October's 3.8% increase and a fourth month of positive market development. It is shaping up to be an encouraging year-end for air cargo despite the significant economic concerns that were present throughout 2023 and continue on the horizon," said Willie Walsh, IATA's Director General.

Asia-Pacific airlines saw their air cargo volumes increase by 13.8% in November 2023 compared to the same month in 2022. This performance was significantly above the previous month's growth of 7.6%. Available capacity for the region's airlines increased by 29.6% compared to November 2022 as more belly capacity came online with the removal of COVID-19 restrictions.

North American carriers had the weakest demand growth in November with a 1.8% increase (YoY) in cargo volumes. This was, nonetheless, a significant improvement in performance compared to October's -1.8% contraction. Capacity increased by 4.0% compared to November 2022.

European carriers saw their air cargo volumes increase by 6.7% in November compared to the same month in 2022. This was a stronger performance than in October (1.0%). Capacity increased 6.5% in November 2023 compared to 2022.

Middle Eastern carriers had the strongest performance in November 2023, with a 13.5% year-on-year increase in cargo volumes. This was similar to the significant improvement noted in the previous month's performance (+13.0%). Capacity increased 15.4% compared to November 2022.

Latin American carriers experienced a 4.2% increase in cargo volumes compared to November 2022, very similar to the 4.0% year-on-year increase recorded for October. Capacity in November was up 7.7% compared to the same month in 2022.

African airlines saw their air cargo volumes increase by 3.9% in November 2023, slightly improved compared to October's +2.9% growth performance. Capacity was 14.0% above November 2022 levels.

Sabre Corporation (Sabre), a leading software and technology provider to the global travel industry, has entered into a multi-year

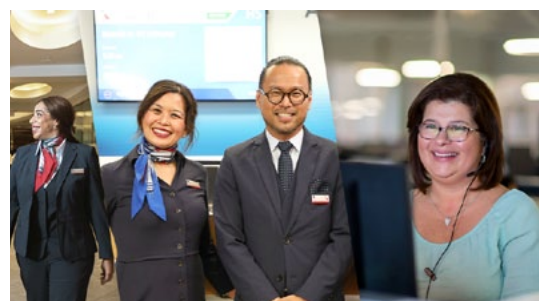


Eurowings turns to SITA to improve baggage operations

© SITA

Eurowings has inked a five-year agreement to implement the **SITA Bag Journey** system, revolutionizing the tracking of passenger bags throughout their entire travel experience. This partnership aims to elevate the baggage experience for travellers, optimise baggage operations, and significantly reduce the overall costs associated with mishandled baggage. SITA Bag Journey offers a comprehensive, end-to-end perspective of each bag's journey, starting from the moment passengers check in their luggage to the moment they retrieve it upon arrival. With SITA's advanced solution, Eurowings' staff will have real-time insights into the precise whereabouts of every bag within the airport premises. Furthermore, in the near future, the airline plans to leverage the SITA Bag Journey API to share baggage tracking data with passengers, offering them the assurance that their luggage will accompany them to their final destination. Mishandled baggage represents a substantial challenge in the aviation industry, incurring billions in losses annually. According to SITA's 2023 Baggage IT Insights report, mishandled baggage rates surged by a staggering 74.7% in 2022, reaching 7.6 bags per thousand passengers. This increase is largely attributed to the upsurge in passenger travel. To address these issues amid ongoing staffing difficulties faced by airlines, airports, and ground handlers, the industry is increasingly turning to intelligent baggage management technologies such as SITA Bag Journey. By implementing SITA's Bag Journey system, Eurowings will align with IATA's baggage tracking resolution 753, which mandates airlines to track luggage at four pivotal stages: check-in, loading onto aircraft, transfers and arrival. SITA will seamlessly integrate this solution across the majority of airports served by Eurowings, including full integration with SITA's WorldTracer® application, designed to trace mishandled or delayed baggage. In smaller airports, Eurowings will also have the flexibility to utilise SITA's mobile bag scanning solution, SITA Bag Journey NetScan, for effective baggage tracking.

In a significant development, the **CWA-IBT**-represented Customer Service team members of **American Airlines** (American), spanning across airports, Premium Guest Services, and Reservations, have successfully ratified a fresh five-year contract with the company. This ground-breaking agreement includes substantial improvements in pay, benefits, and quality-of-life provisions that hold great importance for American's dedicated team. American's CEO, Robert Isom, expressed his satisfaction, stating, "We are pleased to reach a new agreement with the CWA-IBT that ensures our Customer Service team members are paid well and provides the improvements that matter most to our team," he added "I'm grateful for both the company and CWA-IBT negotiating teams who delivered on this shared commitment of taking care of our team. Our Customer Service team members go above and beyond to care for our customers every day and this is a contract they've earned."



American's Customer Service team members have ratified a new five-year agreement
© American Airlines

distribution agreement with **International Airlines Group** (IAG) that will expand their existing partnership and further promote modern travel retailing practices. The agreement will allow Sabre-connected travel buyers and agencies to sell traditional EDIFACT

content as well as having competitive access to NDC offers from **British Airways, Iberia, Aer Lingus** and **Vueling** – including Additional Price Points and ancillaries – through the Sabre travel marketplace globally. This enhanced content will provide travel agencies with a wider

OTHER NEWS

range of options to compare and shop for, while travellers will benefit from an improved experience with more choice and transparency. Sabre and IAG's airlines are working closely together and will communicate as NDC content is rolled out to Sabre-connected travel agencies on a carrier-by-carrier basis. The agreement between Sabre and IAG underscores the industry's shift towards modern travel retailing, where airlines can differentiate their offerings and provide more personalised experiences to travellers. Both Sabre and IAG are committed to advancing the NDC standard as a key component in the industry's evolution towards modern airline retailing enabled by offers and orders. Colm Lacy, British Airways' Chief Commercial Officer, said: "We are on a journey to 'A Better BA' and we continue to invest across the business as part of that commitment. Not only are we improving the experience of those customers who fly with us, but also the way we work with our valued travel agent and travel buyer partners. We understand how valuable retailing is to them, and IAG's partnership with Sabre allows us to make a wide range of attractive offers available even further across the globe." This agreement is another milestone in the IAG strategy to embrace digital retailing practices and offer more opportunities for customers to access NDC content.



Travelport is delivering easyJet content to all types of agency customers globally
 © Travelport

Travelport, a global technology company that powers bookings for travel suppliers worldwide, and **easyJet** have signed a new content distribution agreement that will bring more enriched easyJet content to all of Travelport's agency customers – now including OTAs for the first time. The multi-year deal confirms that travel retailers using Travelport+ will have access to all easyJet fare

types and bundles that the airline has made available to distribution partners, including ancillaries, without any agency channel restrictions. The addition of easyJet's Standard Plus fare bundles (including seat selection and large cabin bag) and Essential fare bundles (including seat selection and checked bag) which complement the existing fares of Standard, Business Inclusive and Flexi, will significantly enrich the options available for both business and leisure travellers. Agents using Travelport+ will be able to shop and compare easyJet's products all in one place, so they can easily upsell and personalise offers for their travellers. Travelport's enhanced servicing capabilities also ensure agents can seamlessly manage easyJet bookings, including modifications and exchanges. "We're bringing more easyJet content to Travelport+ so that travel retailers across the globe can create more personalized offers and provide superior service to our customers," said Dominic Tucker, Senior Distribution Manager at easyJet. "Our partnership with Travelport helps us deliver more choice and connectivity to the market so that travellers flying easyJet can easily customize their experience and add-on extras when they book in any channel, whether they are traveling for leisure, business, or both."

INDUSTRY PEOPLE



Yuana (Yung Eun) Sung

• Novus Aviation Capital (Novus) has reported the promotion of **Yuana (Yung Eun) Sung** to Executive Vice President (EVP). With a nine-year tenure at Novus, starting as Vice President, Sung has been integral in expanding the company's operations across Asia. Her expertise in successfully concluding various aircraft sales, leasebacks and financing lease transactions with Asian partners has been invaluable to the company's growth. **George (Young Ho) Ai**, Head of Asia and Global Equity praises Sung, stating "Yuana's in-depth industry knowledge and exceptional ability to navigate challenging transactions have consistently set her apart. As she continues to lead our Korea operations, we are also looking forward to her valuable contributions to the broader Asia Commercial Team." Novus Aviation Capital is an independent platform established in 1994 with a successful reputation

and track record in providing innovative and creative solutions in the trading, leasing, financing, management and re-marketing of commercial jet aircraft. The company operates globally out of four offices in Europe, Asia and the Middle East. Its global presence and continued success is dependent on the excellent client relations that have been established with investors, lenders, airlines and other stakeholders over the years. Novus Aviation Capital offers the full spectrum of dedicated aviation expertise to support its transactions, including the resolution of distressed situations, should they arise, with timeliness and professionalism. The company's ability to evolve and adapt to changing market dynamics has demonstrated its resilience and commitment to the industry, whilst its financial independence allows for more flexibility, bespoke services and speedier turnaround.

• AJW Capital, a key player in aviation asset management, part of the AJW Group, has announced the appointment of **Erlendur Svavarsson** as its Chief Executive Officer (CEO). Svavarsson brings a wealth of experience to the role, having served as



Erlendur Svavarsson

an accomplished CEO and Board of Directors member within the airline and aviation industry with roles previously held at Cabo Verde Airlines, Loftleidir Icelandic, Arctica Finance and Faradair Aerospace. With a

proven track record in leadership, business development, strategic planning, organisational change, international business, negotiations and mergers and acquisitions, Svavarsson is a highly skilled professional. He is a graduate of the University of Iceland and holds an MBA, summa cum laude, from Reykjavik University, as well as completing studies at the prestigious Harvard Business School. In his new role at AJW Capital, Svavarsson will spearhead the company's strategic initiatives as it continues to thrive within the aviation industry. As part of the AJW Group of companies, AJW Capital serves as the principal investing division responsible for the purchase, sale, and lease of large aviation-related capital assets, including whole aircraft and engines.

INDUSTRY PEOPLE



Gary Pratt

• STS Aviation Group (STS) has appointed **Gary Pratt** as the new Senior Vice President and General Manager of STS Line Maintenance. With an illustrious career and a wealth of experience in aviation maintenance, Pratt is set to steer the company towards unprecedented growth and innovation. As Sr. VP and General Manager, Pratt will oversee operations for 43 Line Maintenance stations across the United States, ensuring each maintains the highest standards of quality and safety that STS Aviation Group is known for. His leadership will be instrumental in enhancing operational efficiency, expanding service capabilities and driving customer satisfaction to new heights. Pratt expressed his enthusiasm about the new role, stating, "I am honoured and excited to lead STS Line Maintenance into its next chapter. The opportunity to work with such a talented team and to build upon the company's sterling reputation is truly invigorating. Together, we will continue to innovate and elevate our service offerings, ensuring that STS remains at the forefront of the aviation maintenance industry." Under Pratt's leadership, STS Line Maintenance is poised for a new era of growth and success. His strategic foresight and unwavering commitment to quality are expected to usher in a wave of advancements in line maintenance services, ensuring that STS Aviation Group continues to exceed the expectations of its customers.



Joanna Geraghty

• JetBlue Airways (JetBlue) has announced that **Joanna Geraghty**, who currently holds the position of President and Chief Operating Officer (COO) at the company, will assume the role of Chief Executive Officer, effective from February 12, 2024, succeeding **Robin Hayes**. Hayes will continue to serve on the company's Board of Directors until that date, after which Geraghty will join the Board. Hayes will also act as a strategic advisor to the company in the months ahead. During her nearly two-decade career at JetBlue, Geraghty has made sig-

nificant contributions in various roles of increasing responsibility. In 2018, she was appointed President and Chief Operating Officer, assuming responsibility for the airline's operations and commercial performance, which includes network, branding, marketing and revenue management. Prior to this, Geraghty served as JetBlue's Executive Vice President, Customer Experience, overseeing airports, customer support, and inflight services. She also held the positions of Executive Vice President, Chief People Officer, as well as Vice President, Associate General Counsel, and Director of Litigation and Regulatory Affairs. Additionally, she served as a board member of the JetBlue Foundation. Before joining JetBlue, she was a partner at the law firm Holland & Knight. Geraghty presently serves on the board of directors of L3Harris Technologies and holds the position of chairperson of the board at Concern Worldwide, an international not-for-profit organization. She obtained her bachelor's degree from the College of the Holy Cross, her master's degree in International Relations from Syracuse University's Maxwell School of Citizenship and Public Affairs, and her J.D. from Syracuse University College of Law.



Mark Moffat

• IFS, the global cloud enterprise software company, has promoted **Mark Moffat** to Chief Executive Officer (CEO). Moffat takes over from **Darren Roos** who has been appointed as the company's Chair of the Board. Both appointments are effective immediately. The transition provides great continuity for the business by building on the successful strategy that has seen IFS transform into the leading vendor for Asset & Service Management software. Moffat, Roos and the IFS Executive Team have been working on the transition over the past six months as part of the Board's succession planning process. Moffat, who was previously IFS Chief Customer Officer, is a well-known and respected technology leader having held several senior positions at PwC before joining IFS.

• Finnair has announced the appointment of **Turkka Kuusisto** as its new CEO, effective no later than July 11, 2024. Kuusisto will be joining Finnair from his current position as CEO of Posti Group Corporation, a role he has held since 2020. Prior to



Turkka Kuusisto

his tenure as CEO at Posti Group Corporation, Kuusisto held senior leadership positions in both Posti Group Corporation and Lindorff Group. The current CEO of Finnair, **Topi Manner**, will depart from the company on January 15, 2024, as he prepares to assume the role of CEO at Elisa Corporation. During the interim period between January 15 and the commencement of the new CEO's tenure, Jaakko Schildt, Chief Operating Officer of Finnair, will step in as interim CEO.

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Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	FPG Amentum	V2527M-A5	3705	2008	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 86 027 3163
A320-233ceo	FPG Amentum	V2527E-A5	4457	2010	Now	Sale / Lease	Lei Ma	ma.lei@fpg-amentum.aero	+852 9199 1875
B737-400F	Royal Aero	CFM56-3C1	29204		Feb 2024	Sale/Lease/Ex	Gary MacLeod	gary@royalaero.com	+44 (0)1357 521144
B737-800 SF	GA Telesis		27988	2000	Now	Sale / Lease		aircraft@gatelesis.com	
B737-900	BBAM	CFM56-7B26/3	34953	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	BBAM	GE90-115BL	39237	2013	Feb 2024	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
SAAB 2000	Jetstream Aviation Capital	AE2100A	031	1996	Now	Sale / Lease	Donald Kamenz	dkamenz@jetstreamavcap.com	+1 (305) 447-1920 x 115
SAAB 340B CRG	Jetstream Aviation Capital	CT7-9B	224	1990	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102
SAAB 340B Plus	Jetstream Aviation Capital	CT7-9B	450	1998	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102

Commercial Engines

CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E5	Now - Lease				
CF34-8C5	Now - Lease				
(2) CF34-3A	Now - Sale	GNS	Shlomi Levi	shlomi@g-n-solutions.com	+972-52 850 8511
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E5A1	Mar 2024 - Lease	DASI	Joe Hutchings	joe.hutchings@dasi.com	+1 954-478-7195

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Commercial Engines

CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-5B3/3	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaaviation.com	+1 786-785-0777
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-5B1/P	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-5B4/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(4) CFM56-5C4	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-5B4/P	Now - Sale/Lease/Exch.	AeroDirect	Steve Berner	sberner@aerodirect.com	+1 708-207-5348
(1) CFM56-5B2/P	Now - Sale/Lease/Exch.				
(4) CFM56-5B5/P	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7040
(1) CFM56-5B4/P	Now - Sale / Lease				
(5) CFM56-5B6/P	Now - Sale / Lease				
(2) CFM56-7B26/3	Now - Sale / Lease				
(1) CFM56-5B3/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(2) CFM56-5B4/3	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GE90-94B	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(2) GE90-94B	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(3) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A33	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
PW1100G Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW1100G-JM	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) PW1521G-3	Now - Lease				
PW 4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW4168A	Now - Sale	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493



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Commercial Engines

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
PW121	Now - Sale	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW127F	Now - Sale				
PW150A	Now - Sale / Lease				
PW127M	Now - Lease				
(1) PW150A	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 772B-60	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) Trent XWB-84	Now - Sale/Lease/Exch.				
(1) Trent 556-61	Now - Sale/Lease/Exch.				
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) V2527-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) V2533-A5	Now - Sale/Lease/Exch.				
(1) V2527-A5	Now - Sale/Lease/Exch.	AeroDirect	Steve Berner	sberner@aerodirect.com	+1 708-207-5348
(1) V2533-A5	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaaviation.com	+1 786-785-0777
(1) V2527-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(2) GTCP331-200ER, (2) GTCP131-9A,	Now - Sale	Setna IO	David Chaimovitz	david@setnaio.com	+1-312-549-4459
(1) GTCP131-9B					
(1) A321 Enhanced Landing Gear 2020 OH					
(1) GTCP36-150	Now - Sale	GNS	Shlomi Levi	shlomi@g-n-solutions.com	+972-52 850 8511
(2) A320 LG Shipsets, (1) A320 NLG, (5) A340 LG Shipset		GA Telesis		landinggearsales@gatelesis.com	
(4) 767 LG Shipset, (3) 737 LG-Shipset					
(1) 777-200 LG Shipset					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) GTCP331-500B	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(1) APS3200, (1) APS3200B, (1) 131-9B (MAX Compliant)		GA Telesis		apu@gatelesis.com	+1-954-849-3509
(3) 131-9B, (2) 131-9A, (1) 331-500, (2) 331-350					
Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000				stands@gatelesis.com	+1-954-676-3111
(2) APU GTC131-9B	Now - Sale / Lease	Willis Lease	Gavin Connolly	gconnolly@willislease.com	+44 1656 765 256
Engine stands now available	Now - Lease				
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368