

WORLD NEWS

Air Astana expands schedule

Air Astana introduces an expanded 2018 Summer schedule on 25th March 2018, which features wide-spread increases in service frequencies across the network from both Astana and Almaty, together with a number of new routes. The new schedule sees weekly frequencies from Astana increase to Beijing (5), Bishkek (5), Delhi (4), Kiev (7), London (7), Moscow (12), Omsk (7), St Petersburg (9), Tbilisi (4) and Urumqui (7), whilst weekly frequencies from Almaty increase to Baku (4), Bishkek (9), Beijing (7), Dushanbe (5), Hong Kong (3), Kiev (9), Moscow (16), St Petersburg (10) and Tbilisi (7).

Billund Airport adds summer sparkle

Continuing to record its best-ever passenger traffic results, Billund Airport has so far delivered a robust 12% growth in the first months of 2018. This period of development is set to be maintained as the West Danish gateway launches an additional six new routes and welcomes three new airlines into its portfolio during S18. Expanding its summer schedule, the airport's network growth gets underway with two new links to Athens. Both Ryanair and Primera Air launch weekly services to the capital city in May, as Billund's fifth connection with Greece joins established operations to Chania, Rhodes, Zakynthos and Kos. As the Irish ultra-low-cost carrier (ULCC) begins its 13th route to Billund, the Athens sector becomes Primera Air's 19th route to the airport. As the peak summer season approaches, Billund will welcome the arrival of Nordic carrier, Widerøe.



fastjet will explore new ties with LAM.

Photo: fastjet

LAM and fastjet sign pact

With hopes to explore wide-ranging cooperation

Mozambique's flag carrier LAM and pan-African low-cost carrier fastjet have entered a Memorandum of Understanding to explore long-term commercial cooperation. The memorandum was signed in LAM headquarter in Maputo. The intent of the memorandum includes wide-ranging areas of cooperation expected to significantly enhance commercial aviation in the country.

The memorandum covers code-share and interline agreements between the two carriers, optimised network synergies to accommodate same as well as cooperation on other commercial systems, cargo, engineering and maintenance. LAM chief execu-

tive Mr. Pinto commented that the "areas of cooperation will not only further strengthen Mozambique's flag carrier as a regional air-services provider but contribute significantly to initiatives that promote tourism, economic development and trade."

"The approach to commercial cooperation is the first of its kind on the African continent."

Fastjet CEO, Nico Bezuidenhout

"This is an exciting and industry-leading public-private partnership initiative," adds Mr. Pinto. "It not only supports Mozambique's greater economic growth objectives in terms of the efficient and

affordable movement of people and goods, but also the notion of a longer-term Whole of State Aviation strategy." Mozambique is a signatory to the Yamoussoukro Decision and one of the early nation-adopters on the continent.

Part of the reason for Africa's under-served status, according to a published World Bank study, *Open Skies for Africa – Implementing the Yamoussoukro De-*

cision, is that many African countries restrict their air services markets to protect the share held by state-owned air carriers.

Continued on page 3

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This practice originated in the early 1960s when many newly-independent African states created national airlines, in part, to assert their status as nations. Now, however, most have recognised that the strict regulatory protection that sustains such carriers, has detrimental effects of air safety records, while also inflating air fares and dampening air traffic growth.

“The approach to commercial cooperation is the first of its kind on the African continent,” says Fastjet Chief Executive Nico Bezuidenhout. “There is significant opportunity in stimulating not only commercial avi-

ation but also up and downstream economic growth through key cooperative initiatives. Fastjet is committed to exploring and leveraging the agreement to the best-benefit of both companies and, ultimately the people of Mozambique.” The African Development Bank recently reported on a high medium-term growth forecast for Mozambique. “This memorandum of understanding lays the foundation for full economic leverage of a very bright future and fulfilment of the Government of Mozambique’s Whole of State aviation objectives.”

AIRCRAFT & ENGINE NEWS

DAE delivers first of three new A320s to Spring Airlines

DAE Capital has delivered a new Airbus A320-200 aircraft to existing customer, Spring Airlines. The delivery took place at the Airbus delivery centre in Hamburg, Germany. This delivery is the first of three new A320-200 aircraft that DAE has agreed to lease to the Chinese low-cost airline. All aircraft will come equipped with CFM 56-5B4/3 PIP engines. These modern, fuel-efficient planes will be delivered in 2018 and are part of a direct order DAE has with Airbus. DAE has a long-standing relationship with Spring Airlines, and has to date leased nine Airbus A320 family aircraft into one of China’s most successful carriers. With the delivery of this new A320-200 aircraft, Spring Airlines has five planes on lease from DAE, rising to seven with the delivery of two more A320s this year.

Elix Aviation Capital delivers one Bombardier Q400 to Jambojet

Dublin-based Elix Aviation Capital has confirmed the delivery of one Bombardier Q400 aircraft, MSN 4554, to Jambojet of Kenya. This is the first delivery from Elix to Jambojet. With this new customer, Elix continues to develop and further invest into the capabilities and services it brings to its African customers.

Boeing 737 MAX 7 completes successful first flight



Boeing’s new 737 MAX 7 successfully completes its first flight

Photo: Boeing

Boeing’s new 737 MAX 7 successfully completed its first flight on Friday, March 16. The airplane’s development remains on schedule and now begins a comprehensive flight test program leading to certification and delivery in 2019. The airplane completed a successful 3 hour 5-minute flight, taking off from Renton Field in Renton, Wash., at 10:17 a.m. Pacific Time, and landing at 1:22 p.m. at Seattle’s Boeing Field. The airplane was put through tests on its flight controls, as well as checks of its systems and handling qualities. The airplane is the third and newest member of Boeing’s 737 MAX family to be produced, with a maximum capacity of 172 passengers. The MAX 7 has a range of 3,850 nautical miles, the longest of any MAX family airplane. It is designed for exceptional performance for airline customers flying out of airports at high altitudes and in hot climates.

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IAI focuses efforts on green energy for development of electrically-powered aircraft

Israel Aerospace Industry (IAI) has begun working on the development of green energy solutions for the future development of electrically powered aircraft, combining environmental benefits together with longer ranges and endurance, and with significant fuel cost savings. The demand for electrically powered aircraft is projected to reach hundreds per year within the next decade, covering a range of sizes and mission profiles. The growing use of electric propulsion is expected to save hundreds of millions of dollars in fuel and maintenance costs. Environmental benefits include significant reduction of air pollution and noise levels. While today's electrical power is mainly limited to very light aircraft, IAI estimates that as the technology continues to mature, the market will diversify also to short-range passenger airplanes and other configurations. IAI's experience in electric power systems for unmanned aerial vehicles spans many years. Some of the products developed by it include the Panther and Mini Panther UAVs, vertical takeoff and landing Unmanned Airborne Vehicles, as well as the Bird Eye 650 reconnaissance vehicle.

Lion Air Group takes first delivery of Boeing 737 MAX 9

Lion Air Group has taken delivery of the very first 737 MAX 9. The airplane will go into service with Thai Lion Air, where its added capacity will help the airline launch several international routes. The Lion Air Group is the launch customer for the MAX 9. They were also the first operator to put the MAX 8 into service and have announced a commitment for 50 MAX 10s. The Group also has an additional 200 737 MAXs on order and is one of the world's largest operators of the 737. The 737 MAX 9 is designed for a capacity of up to 220 passengers and a maximum range of 3,550 nautical miles. With three additional seat rows compared to the 737 MAX 8, this airplane provides operators added capacity while maximizing profitability within their network.

AerFin takes delivery of fourth and fifth E170 E-Jets with spare engines

AerFin has continued its momentum into 2018 by taking delivery of the fourth and fifth Embraer E170 E-Jets, MSN: 123 and 108 from Saudi Arabian Airlines, including ten spare

China Southern Orders 30 Boeing 737 Max Aircraft for XiamenAir



China Southern orders 30 Boeing 737 Max Aircraft for XiamenAir

Photo: AirTeamImages

China Southern Airlines Co Ltd, has placed an order for 30 Boeing 737 MAX family narrow-body aircraft for its subsidiary airline, XiamenAir. According to Boeing, the deal is worth approximately US\$3.6 billion. The order should see delivery take place between 2019 and 2022 and will comprise 20 of the 737 MAX 8 and 10 of the Max 10 variant. The aircraft will be used to increase efficiency and capacity and, according to Boeing, will be used with subsidiaries including Hebei Airlines and Jiangxi Airlines. At the Paris Airshow in July last year, XiamenAir signed a deal with Boeing to become one of the launch customer group for the 737 MAX 10, which is the largest of the 737 MAX narrow-body family of aircraft. XiamenAir currently operates an all-Boeing fleet of over 160 aircraft, including 149 of the 737 variant, six 787-8s and six 787-9s. This current order is that of what was one from an undisclosed customer booked in 2017.

CF34-8E engines and a significant volume of E170 and E190 spare components from the airline. This is following the 2017 announcement that the aftermarket solution specialist acquired the entire Saudia Airlines E170 fleet, as the operator phased-out operations of the aircraft. Both aircraft are expected to be available for sale or lease with a number of leading regional airline operators already expressing strong interest. The delivery will further strengthen AerFin's growing range of E-Jet "Beyond Support" services, which range from flight-hour component pool solutions through to the sale or lease of whole aircraft, engines and major assets. The E-Jet deliveries also follow the news that AerFin recently announced its "Beyond Pool" component support agreement for BA CityFlyer's entire fleet of E-Jet aircraft. The "Beyond Pool" agreement offers a fixed-cost solution for all the airline's E-Jet

component requirements.

Avolon delivers one Boeing 787-9 to Air Europa and one Boeing 787-9 to Norwegian Air

International aircraft leasing company Avolon has delivered one Boeing 787-9 aircraft to Air Europa and one Boeing 787-9 to Norwegian Air. It is the sixth aircraft from Avolon on lease to Air Europa and the fifth on lease to Norwegian Air.

SkyUp Airlines finalizes order for five 737 MAX airplanes

Boeing and SkyUp Airlines have finalized a firm order for five 737 MAX airplanes valued

AIRCRAFT & ENGINE NEWS

at US\$624m at list prices. The order includes two 737 MAX 8 and three 737 MAX 10 jets. SkyUp, based in Kiev, is a new airline that plans to begin charter operations in April with leased Next-Generation 737 airplanes. The airline is ordering the MAX airplanes to meet future demand in the Ukrainian market.

MRO & PRODUCTION NEWS

HAECO ITM signs agreement with ASL Airlines for inventory technical management support

HAECO ITM, a member of the HAECO Group, has reached an agreement with ASL Airlines (Ireland) to provide inventory technical management support for the company's three Airbus A330-300 passenger-to-freighter (PTF) aircraft operating out of Hong Kong. The scope of the agreement includes access to HAECO ITM's component pool, component exchange, component repair management, component engineering and AOG support in accordance with the guaranteed delivery time and service level. Thanks to HAECO ITM's commitment to providing customized and cost-effective solutions, ASL Airlines will benefit from a tailored inventory management program, allowing them to focus on their operations. Brendan Smyth, Director of Engineering of ASL Airlines, said: "The entry-into-service of the first A330-300 PTF conversion is a very exciting project. We are delighted to have the support of HAECO ITM in making it a success."

StandardAero achieves EASA AMO certification for South African PT6A engine MRO facility

Vector Aerospace Africa, a StandardAero company located in Lanseria, Johannesburg, South Africa, has secured European Aviation Safety Agency (EASA) aircraft maintenance organization (AMO) certification for its engine maintenance, repair and overhaul (MRO) facility. Opened in 2010 and located at Lanseria International Airport, the shop is a Pratt & Whitney Canada (P&WC) PT6A Designated Overhaul Facility (DOF) with distributorship rights. The newly awarded AMO certification from EASA adds to a long list of existing approvals for the Lanseria facility, which already holds authorizations from the South Africa Civil Aviation Authority (CAA) and Transport Canada (TCCA). The facility also holds local AMO approvals from the civil aviation author-

All Nippon Airways first A380 final assembly to begin next month



A380 ANA fuselage convoy

Photo: Airbus

A special convoy of six vehicles has arrived at the Airbus Toulouse final assembly line, carrying six sub-assemblies for the Airbus A380 – the nose, central and aft fuselage sections, the tailplane, and the two wings. The plane is the first of three which have been on order from All Nippon Airways (ANA) and final assembly is set to commence next month. ANA will become the launch customer for the A380 in Japan and scheduled delivery of this aircraft is set for early 2019. The plane will operate on the airline's Tokyo – Honolulu route will feature a special 'Honu' Hawaiian green sea turtle livery, symbolizing good luck and prosperity. According to Airbus, the A380 is the world's largest, most spacious airliner that offers passengers the smoothest, quietest and most comfortable ride. With two full widebody decks, offering the widest seats, wide aisles and more floor space, the A380 has the unique capability to generate revenue, stimulate traffic and attract passengers, who can now specifically select the A380 when booking a flight via the iflyA380 website. Today, 222 A380s are operated by 13 airlines on 60 destinations, and 240 airports around the world can accommodate the A380. A further 109 A380s are on order, with the French plane manufacturer receiving a boost to the ailing program at the beginning of the year with an order for a potential 36 of the superjumbos from its principal customer, Emirates. It is understood that discussions may also currently be taking place between Airbus and IAG, owner of British Airways, for a number of new A380s as an alternative to refurbishing second-hand planes to British Airways' specifications.

ities of Angola, Botswana, Kenya, Namibia, Zambia and Zimbabwe.

MTU Maintenance and Tunisair Technics sign CFM56 engine maintenance contract

MTU Maintenance and its new customer Tunisair Technics, have signed a five-year maintenance agreement for the airline's CFM56-5B/-7B engines. The contract covers maintenance, repair and overhaul, on-site services and spare engine leasing support. Tunisair is the

Tunisian flag carrier and Tunisair Technics is part of Group Tunisair. The airline operates a fleet of 29 aircraft and routes within the Middle East, North Africa, West Africa and Europe, as well as an international route to Canada. Tunisair was founded in 1948 and operates out of Tunis Carthage International Airport. MTU Maintenance has been overhauling CFM56 engines for over 18 years. The company performs around 175 shop visits per year on the engine family at its locations in Hannover (Germany), Vancouver (Canada) and Zhuhai (China).

MRO & PRODUCTION NEWS

Lufthansa Technik expands component maintenance for Jet Airways

Lufthansa Technik AG and the Indian international carrier Jet Airways have expanded their cooperation. Representatives of both companies signed a Total Component Maintenance (TCM) contract for Jet Airways' narrow-body fleet of 80 Boeing 737NGs, with single components repaired in a closed-loop and flat-rate-based process. In addition, the existing Total Component Support (TCS®) contract for Jet Airways' wide-body fleet was extended by another seven years. The contract comprises an extensive component pooling-based support for ten Boeing 777 and eight Airbus A330 aircraft. Amit Agarwal, Deputy Chief Executive Officer, Jet Airways said: "As India's premier international airline, Jet Airways follows a stringent selection process for service providers. We are pleased to expand the scope of our ongoing relationship with Lufthansa Technik to include our Boeing 737NG fleet, in addition to our A330 and 777 fleets, for which they have been a reliable component supplier for many years. We look forward to an excellent partnership with them."

FINANCIAL NEWS

Fraport posts strong 2017 results supported by significant traffic growth at all group airports

The Fraport Group has reported a successful 2017 fiscal year (ending December 31), in which revenue and earnings targets were fully reached. Supported by significant traffic growth at all of the Group's airports, revenue climbed by almost 13.5% to €2.93bn. A major revenue contribution from the Greek airports (which Fraport began operating in 2017) boosted the company's revenue by €234.9m. Operating earnings (Group EBITDA) slipped slightly by 4.8% to €1,003m, due to lower other operating income. The main reasons for the decrease were, in particular, positive one-time effects in the corresponding period of 2016. Adjusting the previous year's figures for the compensation payment received in connection with the Manila project, for the proceeds from the sale of shares in Thalita Trading Ltd., and for other extraordinary effects (provisions for staff restructuring and depreciation and amortization tied to FraSec and Airmall), EBITDA increased by approximately 18%, or about €150m. The Group result (consolidated earnings) fell by 10.1% to €360m. However, compared to the corresponding adjusted 2016 figure, there was a noticeable

MTU Power: New brand for gas turbine business



New brand: MTU Power

Photo: MTU

MTU Aero Engines AG has launched a new brand to improve transparency in services for gas turbine customers. The new brand is called MTU Power and consolidates the existing gas turbine engineering, manufacturing and aftermarket expertise and services from the business units' Aero Solutions, Brush Seals and MTU Maintenance at MTU. The overall aim is to harmonize the extensive experience, in-depth knowledge and creative, never-give-up mentality within the company and bring its services even closer to the customer. MTU Power was launched on March 19, at the Western Turbine Users, Inc. (WTUI) in Palm Springs, California, the largest General Electric aero-derivative LM series conference and gathering worldwide. MTU has wide-ranging capabilities within the industrial gas turbine sector – from research and development to manufacturing and certification. At the WTUI, the focus is on the aftermarket, where MTU with its brand MTU Power is the largest independent provider for flexible and cost-efficient maintenance, repair and overhaul solutions for GE LM2500, LM5000 and LM6000 turbines and their packages. MTU Power, previously working as part of MTU Maintenance, has carried out more than 1,300 LM shop visits in its over-36-year history. Of all licensed depots, MTU has under its brand MTU Power, the widest range of GE LM sub systems in its portfolio (47) and tests under real load conditions.

The business unit known as Aero Solutions is specialized in development, testing, design optimization and manufacturing of turbines and compressors for original equipment manufacturers. Aero Solutions markets MTU's engineering and manufacturing facilities to third-party customers, allowing them to benefit from industry leading experts and cutting-edge technological expertise in their own projects. Aero Solutions will also become part of the MTU Power brand. In addition, MTU has a dedicated, and world-leading brush seals team that has been developing innovative turbomachine seals for over thirty years. The unit will also belong to the range of services offered under the brand MTU Power. Brush seals are made up of thousands of thin bristles fixed together using core wire and a clamping tube to form a flexible seal. This method greatly outperforms conventional sealing systems, such as labyrinth seals. MTU has established itself as a global leader in the field. Brush seals are used, for instance, in bearing chambers, shafts, inter stages, balance pistons, and as static seals in gas and steam turbines and compressors – including, more recently, for Organic Rankine Cycle (ORC) turbines, sub-sea compressors and unusual applications such as Formula 1 race cars and 3-D Selective Laser Melting (SLM) machines. As part of the MTU Aero Engines Group, MTU Power is at home in the aviation world, where the highest technological and quality standards are the norm. The company group operates a global service network with locations in the Americas, Europe and Asia-Pacific. More than 10,000 employees from over 50 nationalities are dedicated to serving MTU's customers. The business units mentioned will present as a brand, but will continue to operate under their existing legal entities and segments in financial reporting.

FINANCIAL NEWS

increase of about €60m – up more than 20%. The operating cash flow of €790.7m in 2017 exceeded the previous year’s figure by 35.6%, particularly due to the contribution from operations at Fraport Greece and the growth at Frankfurt Airport. Correspondingly, the free cash flow rose markedly by about 30.3% to €393.1m. (€1.00 = US\$1.23 at time of publication.)

Norwegian offers main shareholders opportunity to purchase additional shares

On March 20, Norwegian announced a contemplated private placement of shares with gross proceeds of up to NOK 1,300 million by issuing new ordinary shares in the Company. Additional capital will boost competitiveness and protect existing and future investments in a market characterized by higher oil prices and fluctuating currencies. The company is now positioning itself for the final stages of a strong growth period that has lasted for several years and which will reach its peak by the second quarter of 2018.

Elbit Systems receives governmental approval to acquire Universal Avionics Systems Corporation

Elbit Systems is in the process of completing the acquisition of Universal Avionics through an asset acquisition agreement. The parties have received the applicable government approvals and the closing is anticipated in the coming weeks. Under the ownership of Elbit Systems, Universal Avionics will become a wholly owned subsidiary. Universal Avionics is a manufacturer of innovative avionics systems offered as retrofit and forward-fit solutions for the largest diversification of aircraft types in the industry.

Ryanair to acquire initial 24.9% stake in new airline Laudamotion



Ryanair To Acquire 75% Subject To Eu Competition Approval

Photo: Ryanair

In an attempt to gain a stronger foothold in the German and Austrian market, Ryanair has agreed to buy an initial stake in Austrian carrier Laudamotion. Laudamotion is a newly formed carrier rising from the ashes of insolvent Niki, the low-cost subsidiary of the now defunct Airberlin. Niki flew to tourist destinations from Germany and Austria using A320 and A321 planes and was seen as the most attractive part of Air Berlin. Ryanair already has plans to increase its stake in Laudamotion to 75% “as soon as possible”, subject to EU approval. Up to €50 million (US\$61.5 million) is being invested in the purchase, with an additional €50 million being made available to fund first-year start-up and operating costs. Commenting on the purchase, Michael O’Leary, Ryanair’s chief executive said that: “We look forward to working in partnership with Niki Lauda to successfully develop his vision for a successful Austrian low fares airline to service the schedule and charter markets,” adding: “The Laudamotion AOC will support a fleet of Airbus aircraft which is something we have hoped to develop within the Ryanair Group for some years. “With access to the Ryanair fleet and financial resources, Laudamotion will now grow more rapidly, as it seeks to compete in a market which is dominated by Lufthansa’s high airfares with its Swiss and Austrian subsidiaries.” Ryanair had shown interest in bankrupt Airberlin when it was put up for sale, but claimed the sale was “a stitch-up” designed to benefit Germany’s flag-carrying airline Lufthansa, the preferred bidder, with Ryanair lodging formal complaints with the European Commission and Germany’s competition authority. Lufthansa subsequently withdrew its bid for the stricken airline after EU competition authorities expressed concerns over the deal. At one point IAG, parent company of British Airways had been chosen as the successful bidder for Niki, but in a last minute move, insolvency proceedings were transferred from German to Austrian courts, and on January 23 this year Lauda’s company Laudamotion was confirmed as the successful bidder. The deal was for an undisclosed figure, but included the purchase of 15 Airbus A321s..

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MILITARY AND DEFENCE

Airbus signs long-term cooperation framework with Luxembourg

Airbus and the Luxembourg government have signed a Memorandum of Understanding (MoU) to establish a framework for increased global long-term cooperation in the areas of cybersecurity, space technologies, remotely piloted aircraft systems, as well as rotary wing aircraft. In cybersecurity and in the field of intelligence and training, Airbus will develop a partnership with the Luxembourg Cybersecurity Competence Center (C3), a public private partnership program, to provide intelligence, cybersecurity skills and expertise, as well as training and testing facilities to economic actors. Airbus also agrees to assess the opportunities of a long-term partnership with LuxTrust, a public-private certification authority and qualified trust-services provider that issues and manages digital identities with a high level of security and compliance. Airbus will also continue and expand its collaboration with GIE Incert. In space, Airbus and the Luxembourg Government will identify areas of cooperation for the future space economy. In the area of rotary wing aircraft, Airbus will become a privileged partner for Luxembourg-based companies, setting directions for new and expanded collaboration. Opportunities also include research and development activities. "The collaboration with Airbus is in line with the Luxembourg Defence Guidelines for 2025+ establishing the framework for the development of Luxembourg's Defence," said Etienne Schneider, Luxembourg's Deputy Prime Minister, Minister of the Economy and Minister of Defence. As part of the MoU, Airbus has agreed to provide training sessions

to Luxembourg-based companies to become potential suppliers. A delegation of executive-level representatives from top Luxembourg-based suppliers participated in a dedicated training session today at the Airbus premises in Toulouse.

Air Partner's SafeSkys awarded Royal Air Force contract in Scotland

SafeSkys, part of the Air Partner group, has been awarded the contract for provision of Airfield Wildlife Control Services for the Royal Air Force (RAF) in Scotland at RAF Lossiemouth, RLG Kinloss and RAF Leuchars. The three-year contract will commence April 1, 2018, with the option of a two-year extension. SafeSkys is a valued provider to the RAF, having supplied services at every one of its airfields in the UK. At present, it also holds contracts with RAF Brize Norton, RAF Benson and RAF Northolt in the Southern Region, and RAF Valley, RAF Mona and RAF Shawbury in the Western Region. SafeSkys was acquired by Air Partner in September 2017 and sits within its Consulting & Training division. It is one of the global leaders in Wildlife Hazard Management & Wildlife Control Services, with experience and expertise built up over 24 years serving the needs of civil and military customers.

GE Aviation receives UAE F-16 Block 60 Data Transfer System contract

Lockheed Martin has awarded GE Aviation a multi-million-dollar contract to upgrade the United Arab Emirates (UAE) Air Force's F-16 data transfer system. The contract involves a redesign of the system and an aircraft retrofit that will extend the life of this capability

for the UAE Air Force's F-16 fleet. "This development work, scheduled for the next several years, advances the data transfer product line to be ready for next-generation applications," said Alan Caslavka, president of Avionics Systems for GE Aviation. The data transfer system is an integral part of the Block 60 avionics suite that provides mission data to the aircraft, allowing the pilot to execute missions more efficiently. The UAE Air Force operates a fleet of Lockheed Martin F-16E/F Block 60 aircraft. The Block 60 brings together a host of systems on the leading edge of technology to deliver the capabilities necessary to meet modern defense requirements.

Airbus delivers two A400M new-generation airlifters to two different nations in one day

Airbus has, for the first time, formally delivered two A400M new-generation airlifters to two different nations in one day. The company handed over the aircraft on March 20, to the European Organisation for Joint Armament Cooperation (OCCAR), in charge of the management of the A400M Programme, representing Germany and France – at a ceremony in Seville, Spain. OCCAR Director Arturo Alfonso-Meiriño said: "It is a great pleasure to see two of the leading OCCAR nations receiving these superb aircraft on the same day in a year when the organization is itself celebrating the 20th anniversary of the signature of its Convention. This is testimony to the effective work performed by OCCAR's A400M team over many years in managing this exceptionally complex program." These latest deliveries were the 60th and 61st A400Ms to be handed over and take the German and French fleets to 18 and 14 aircraft respectively. The photo



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MILITARY AND DEFENCE

shows the Airbus and OCCAR delivery teams, and French and German crews in front of the two aircraft following the official handover ceremony.

OTHER NEWS

Iberia and Qatar Airways have extended the code-sharing agreement they signed in 2017, enabling their customers to travel to more destinations, with more flight options and better connections. Now, Iberia passengers will be able to travel to 18 destinations in Africa, Asia, and Australia, via Doha. Amongst these new destinations are 14 cities: Addis Ababa in Ethiopia, Karachi, Islamabad and Lahore in Pakistan, Male in the Maldives, Hong Kong in China, Phuket in Thailand, Jakarta and Denpasar in Indonesia, Ho Chi Minh City in Vietnam, Phnom Penh in Cambodia, along with Adelaide, Melbourne and Perth in Australia, which join Doha, already included in the code-share agreement both airlines signed last year. Qatar Airways, which has offered flights operated by Iberia under code sharing to 28 destinations in Spain and Portugal since March 2017, can now sell flights under its code on the Spanish carrier's routes to Bogota, Medellin, Montevideo, Panama City, Rio de Janeiro and Santo Domingo in the Dominican Republic. Iberia and Qatar Airways are members of oneworld, which the Qatari airline joined in October 2013. Members of Iberia Plus and Qatar Airways Privilege Club can earn, as well as redeem Avios and QMiles when they fly with either carrier. With the extension of the code-sharing agreement, cardholders of both loyalty programs will have more options for enjoying these benefits.

Flight Solutions, the innovative UK-based airport technology provider, has been awarded a contract which will see its eScan Passenger Verification System rolled out across eight air-



Yeti snow technology

Photo: Semcon

Snow-ploughs at airports may soon be autonomous. For the first time, autonomous snow-ploughs, 20 meters long and 5.5 meters wide, have cleared snow from a runway. This project, which is known as Yeti and which uses technology developed by Semcon, aims to increase efficiency and reduce delays at airports. Clearing snow at airports is absolutely crucial. Takeoff and landing runways must be completely clear of snow if flights are to depart and land on time. At present, airports always need to be prepared and have staff on standby who can clear snow whenever they are needed. Problems with snow also result in many delays and stranded passengers every year. "Autonomous snow-ploughs will allow airports all over the world to streamline their activities and reduce delays for their passengers. This is a good example of how autonomous vehicles can increase profitability and add value for people," says Markus Granlund, CEO at Semcon. On March 19, self-driving snow-ploughs were presented for the first time when they were deployed at Fagernes Airport in Leirin, Norway, 200 kilometers north of Oslo. This project has been developed by Yeti Snow Technology, co-owned by Semcon and Øveraasen, for Norwegian airport operator Avinor. The snow-ploughs have enough capacity to clear an area of 357,500 m² an hour. One unique feature of these autonomous vehicles is that they can clear snow in formation, several vehicles working together, and with the same outstanding precision no matter the weather. Semcon in Norway is contributing its expertise to the project, working with complex real-time systems and autonomous technology. "We have designed a control system that sets up digital patterns for autonomous snow clearance at airports. The system can then download these patterns and monitor a number of vehicles that navigate using RTK GPS, an accurate form of position measurement, and communicate using 4G modems," explains John Emil Halden, Semcon project manager.



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OTHER NEWS

ports operated by **Highlands and Islands Airports Limited (HIAL)** in time for the busy summer season. Flight Solutions' eScan Passenger Verification System will be installed at eight regional airports in Scotland – Inverness, Benbecula, Dundee, Islay, Kirkwall, Stornoway, Sumburgh and Wick – confirming that every passenger is on a valid flight and permitted to proceed through security to the departure gates. The system will also provide real-time passenger data to HIAL, which the group can use to measure passenger flow and queue times. This knowledge will allow HIAL to make business decisions on when, where and how to process passengers more efficiently across its airports. Inverness Airport, part of the HIAL group, will also benefit from an airport-wide roll out of Flight Solutions' Passenger Processing systems, including its common-use system (CUTE) and common-use self-service (CUSS) products. Ten common-use check-in desks, six self-service check-in kiosks, seven self-service bag-drops and six boarding gates will be installed across Inverness Airport by June 2018. These solutions have already proven successful with KLM, which has been using Flight Solutions' kiosk check-in and agent-assisted bag drop products at Inverness Airport since 2016.

The Federal Aviation Administration (FAA) has issued a Supplemental Type Certificate (STC) for installation of **AerSale®'s** AerTrak™ system on Boeing 737 NG series aircraft (ST04009NY), to comply with the Automatic Dependent Surveillance-Broadcast (ADS-B) Operations rule, a critical part of the agency's Next Generation Air Transportation System (NextGen). Beginning January 1, 2020, the FAA has mandated that aircraft operating in airspace defined by 14 CFR § 91.225 must be equipped with an ADS-B Out system that meets the minimum performance requirements of 14 CFR § 91.227. ADS-B provides enhanced navigational accuracy using precise tracking via global positioning satellite (GPS) signals. Reducing risk and improving safety, the technology increases navigational coverage, especially in remote areas beyond radar range. Additionally, ADS-B enables more direct flight plans, thereby saving time, costs, and reducing emissions.

The International Air Transport Association (IATA) is increasing its Montreal headquarters operations with the expansion of its Financial and Distribution Services (FDS) division. The move is expected to grow IATA's employment in Montreal to more than 400 with the addition of 27 full-time jobs—some newly



Biometrics trial at LAX

Photo: Lufthansa

As part of its ongoing efforts to digitalize the travel world, **Lufthansa Group** has launched hassle-free, one-step biometric boarding utilizing facial recognition. This innovative pilot, enabled through a collaboration with Lufthansa Group's longstanding IT partner, Amadeus, as well as U.S. Customs and Border Protection (CBP), Los Angeles World Airports Authority (LAWA), and Vision Box, is now available at **Los Angeles International Airport (LAX)**. During initial trials, Lufthansa received very positive feedback from guests and boarded approximately 350 passengers onto an A380 in about 20 minutes. "The increasing need for airlines, airports and authorities to offer faster and more-convenient processes for guests to move through the airport creates a unique opportunity for the use of biometrics," said Bjoern Becker, Senior Director, Product Management Ground and Digital Services for Lufthansa. "Lufthansa strives to enhance the customer experience by applying advanced technologies and innovative solutions. This is a further step towards achieving that goal." With ever-increasing passenger volumes and airport infrastructure limitations, biometrics are becoming a key element to speed up the airport process while ensuring passenger safety and security. In the U.S., airlines will not need to create and maintain their own biometric database as it can rely on data provided from a central source – the CBP – for exceptional efficiency and accuracy.

created, others relocated from Geneva, Switzerland. IATA's mission is to represent, lead and serve the airline industry. Its 280 member airlines from 120 countries comprise 83% of global traffic. IATA's Montreal office provides critical services to the global aviation industry in areas that include safety, security, legal, training, passenger experience, technical audits and consulting. This expansion of IATA's Montreal operations is part of the creation of a Global Delivery Center (GDC) where the back-office functions for IATA's Financial Settlement Systems (FSS) have been consolidated into four locations. This allows IATA to better meet increasing expectations of airlines, travel agents, and freight forwarders using the FSS, which manages more than US\$400bn of industry settlements annually.

"IATA's financial settlement systems are the back office of the airline industry. They facilitate the selling, reporting, and remittance procedures of IATA-accredited passenger and cargo sales agents with some 400 participating airlines. Montreal will play a key role in the GDC which also includes Beijing, Madrid and Singapore. Working together across these locations, the GDC will ensure that the airline value chain benefits from the game-changing innovation that are transforming the financial services industry," said Alexandre de Juniac, IATA's Director General and CEO. Montreal is also home to the headquarters of the **International Civil Aviation Organization (ICAO)**, the **International Federation of Airline Pilots' Associations (IFALPA)**, **Airports Council International (ACI)**, four original equipment manu-

OTHER NEWS

facturers (OEMs) (**Bombardier, Bell Helicopter Textron Canada, CAE and Pratt & Whitney Canada**), and over 200 aerospace companies.

Boeing has announced its intention to establish a new research center in the Republic of Korea; the company is currently in discussion with the Korean government regarding the center opening. The research center will focus on accelerating autonomy, artificial intelligence, avionics, analytics, smart cabin, smart factory and other technologies for future aerospace products. "Korea is home to premier talent and industrial partners, as well as policies that foster innovation development. These factors combine to make Korea an ideal collaborator on aerospace innovations that will change the world," said Greg Hyslop, Boeing chief technology officer and senior vice president of Engineering, Test & Technology. "This new center is a natural progression of years of successful research and technology partnerships in the region, and we're excited about the opportunity to expand our investment." Boeing and the Republic of Korea have a solid history of working together dating back to 1950. Boeing Korea was established in 1988 and currently employs more than 200 people across nine Korean cities: Seoul, Incheon, Busan, Gimpo, Icheon, Seosan, Daegu, Sacheon and Yeongcheon. Korea represents one of the top-ten largest international markets for Boeing, and partnerships in both the commercial airplane and defense markets help support the growth of the Korean aerospace industry. Boeing plans to staff the center with locally hired technology experts when the facility opens this year in a location to be announced at a later date, with the cooperation of the local government.

ASAP of Slovakia and Aeropath of New Zealand have signed an instrument procedure design software and training cooperation agreement for the Asia-Pacific region. ASAP designs instrument flight procedures worldwide and has created the PHX procedure design software to make the design process as efficient

as possible. PHX procedure design software is currently in use by various CAAs, Airports and ANSPs worldwide, including Aeropath. Since Aeropath is a leader in the Asia-Pacific region in procedure design and training, a collaboration between the two companies from different hemispheres was inevitable. Wayne Smith the CEO of Aeropath said: "We have been working closely with ASAP for many years now and as our existing customers are interested in procedure design software and training it is great to be partnering with ASAP to provide these services" In Madrid, at the World ATM conference, the two CEO's Wayne Smith (Aeropath) and Ian Whitworth (ASAP) were able to meet in person and sign a co-operation agreement. This agreement covers sale and implementation of the ASAP procedure design software (PHX) in the Asia-Pacific region, which formalized Aeropath as an authorized seller of PHX. The agreement also recognized over ten years of experience that Aeropath staff have in validating the software and designing with PHX. This is the first such official training recognition that ASAP has formalized in the 20 years that the company has been providing procedure design software to the aviation community. This shows ASAP's complete confidence in the professionalism and quality of the Aeropath team.

Singapore Technologies Engineering (ST Engineering) has joined forces with **Surbana Jurong Pte (Surbana Jurong)** and **Changi Airport Planners and Engineers Pte (CAPE)** to form a consortium of Singapore-based companies to participate in overseas airport development projects and to meet rapidly growing aviation needs. With projected global airport development expenditure estimated at more than US\$1 trillion up to 2058, the consortium plans to develop a comprehensive export strategy for this business area with a particular focus on Asia Pacific markets and cities with strong growth potential. Tapping on the unique strengths and complementary capabilities of the companies, the consortium will deliver holistic, end-to-end solutions that can transform the global airport development industry, enhance efficiency and security of airport operations, as well as improve air travel experience. This will drive the consor-

tium's common objective in implementing smart city initiatives worldwide that enhance standards of living and improve the lives of people. Harnessing its deep technological capabilities in areas such as data analytics and artificial intelligence, ST Engineering will deliver cutting-edge, next-generation solutions that power global smart cities and transform airport operations. These include the Group's proven technologies such as analytics-driven airport operations command systems, security solutions such as counter drone, sensor-based intruder detection as well as biometrics screening, unmanned aerobridge systems and autonomous baggage handling systems that promote safe, secure and efficient airport operations.

Sabre Corporation, a technology provider to the global travel industry, has expanded its technology partnership with **Virgin Australia**. This agreement further strengthens the longstanding and trusted partnership between the companies, while supporting Virgin Australia's digital modernization efforts with the addition of Digital Experience, Sabre's next-generation e-commerce platform. The companies have collaborated since 2001, when Virgin Australia began leveraging commercial and operational technology from Sabre's broad portfolio to grow its business after its entry to the Australian domestic market in 2000. In 2013, when the carrier was ready to launch its brand transformation program in a shift from a low-cost to full-service airline, Sabre assisted Virgin Australia with the implementation of its customer-centric passenger services system. This year, the airline will launch the SabreSonic Digital Experience to develop a fully responsive website that offers end-to-end retailing capabilities.

After the death of a French bulldog puppy that was placed in an overhead bin on one of its flights, **United Airlines** CEO Oscar Munoz confirmed to NBC Wednesday, March 22nd, that the airline will continue to review the situation while the pet transportation program has been suspended, but that there are no long-term plans to close it down. It was reported on March 14 that the puppy died after



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the owner was asked by a flight attendant to place the travel bag it was being transported in into an overhead bin. The passenger's protestations that there was a dog in the bag were either not heard or were misunderstood by a member of the cabin crew who insisted on the bag being stowed in the overhead bin, and United have since apologized to the owner for the tragic outcome. In addition to issuing an apology, United has also confirmed it intends to issue passengers travelling with in-cabin pets with brightly colored bag tags so cabin crew can easily identify that an animal is being transported in the cabin. United also stated that under no circumstances should any animal ever be placed in an overhead bin. United carries more pets on domestic flights than any other carrier in the U.S., a consequence of which has resulted in United being involved in 18 out of 24 deaths reported for animals in transit last year. Additional recent problems have included a German shepherd dog mistakenly sent to Japan rather than Kansas City. In a recent interview, when questioned about closing down the option for pet transportation, Munoz commented: "Doing away with something would be the simplest thing to do," adding: "That's not what we're going to do. That's not what United's about."

INDUSTRY PEOPLE

- Cadence Aerospace, a provider of highly complex aerospace components and assemblies to commercial and defense customers, has appointed **Thomas C. Hutton** as Chief Executive Officer and **Dennis J. Orzel** as Chief Operating Officer. **Ron Case**, who has served as the Company's CEO since 2014, plans to retire later this month. With Centers of Excellence based in the U.S. and Mexico, Cadence Aerospace serves the world's leading manufacturers of aircraft, aerostructures, aero equipment and other defense platforms. Hutton joins Cadence Aerospace after having served as Chief Executive Officer of PAS Technologies, a provider of cost-effective original equipment manufacturing and maintenance, repair, and overhaul (MRO) products, services and solutions for the commercial and military aerospace, industrial gas turbine and oil and gas markets. Orzel has a broad range of manufacturing, supply chain, and engineering experience in the aerospace and energy industries, having served most recently as Chief Operating Officer at PAS Technologies. He spent more than 20 years at United Technologies, where he held leadership

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Technical Aspects of a Leased Asset 2018

June 5, 2018 - Jury's Inn Hotel, Prague

Maintenance Reserves Seminar 2018

June 6, 2018 - Jury's Inn Hotel, Prague

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roles in operations and engineering at Pratt & Whitney.

- Exostar, whose cloud-based solutions help companies in aerospace and defense, life sciences, and healthcare collaborate securely with their partners, announced the newest addition to its executive team, promoting **Venencia Magnusen** to the position of Vice President, Human Resources. In her new role, Magnusen will continue to oversee all HR initiatives at the company, including talent acquisition, career planning, and employee engagement. She leads a team of HR specialists tasked with maintaining a thriving corporate culture and enabling and empowering the success of the business as Exostar augments its staff by 10-20% in the coming year.

- IBA, the independent aviation advisory and aircraft appraisal firm, has appointed **Dr Stuart Hatcher** to the role of Chief Operating Officer. Dr Hatcher joined IBA in 2005 and was previously Chief Intelligence Officer responsible for IBA's valuations, modelling and intelligence activity – analyzing the market and trade information, to refine IBA's valuations and opinions on market trends and their effect on the industry. He has been responsible for developing IBA.iQ, the new online analysis platform offering essential market intelligence for aircraft operators and the global aviation leasing and finance community. Dr Hatcher holds a Ph.D. in Chemistry, as well as being a Senior ISTAT Certified Appraiser.

AVITRADER

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5811 Cooney Road

Richmond, BC

Canada V6X 3M1

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Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	CFM56-5B5/P	2385	2005	Q1/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
A320-200	Castlelake	V2527-A5	2288	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Castlelake	V2527-A5	2161	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	ORIX Aviation	V2527-A5	3807	2009	Q1/2020	Lease	Matt McCoy	Matt.McCoy@orix.ie	+353 1824 4738
A330-200	Castlelake	PW4168A	223	1998	Q2/2018	Sale	Stuart MacGregor	stuart.macgregor@castlelake.com	+442071906138
A340-300	GA Telesis	CFM56-5C4	433	2001	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
A340-300	GA Telesis	CFM56-5C4	541	2003	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
B737-300	Aersale	CFM56-3	27707	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-300	Aersale	CFM56-3	27926	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-400	Safair Operations	Freighter	East Africa	Dec 2017	ACMI only		C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-400	Aersale	CFM56-3C1	24688	1990	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-400	Aersale	CFM56-3C1	24688	1990	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	ORIX Aviation	CFM56-7B26/3	37258	2011	Q2/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26/3	38015	2011	Q1/2019	Lease	Qi Sun	qi.sun@orix.ie	+353 18244732
B737-800	ORIX Aviation	CFM56-7B26	33995	2005	Q2/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	Aersale	CFM56-7B26	30881	2002	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	GA Telesis	RB211-524	26637	1992	Now	Sale	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
B747-400	GA Telesis	PW4000	29950	2000	Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B777-200ER	GA Telesis		28999	Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111	
B777-200ER	GA Telesis		28523	Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111	
DC8	Aersale	No engines	46094	1969	Now	Sale	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR72-212	C&L Aviation Group	PW127	434	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-212	C&L Aviation Group	PW127	425	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-212	C&L Aviation Group	PW127	420	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-202 Cargo	C&L Aviation Group	PW124B	455	1995	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
CRJ-200LR	Regional One	CF34-3B1	7484	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10246	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10029	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-900LR	Regional One	CF34-8C5	15057	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	323	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	325	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
Dornier 328-300	Regional One	PW306B	3145	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
Dornier 328-300	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Mark Dunnachie	mark.dunnachie@aerfin.com	+44 2920 109 898
ERJ-145	Regional One	AE3007A1P	145291	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
SF340B	C&L Aviation Group	CT7-9B	194	1990	Now	Sale / Lease	Fred Dibble	fred.d@cla.aero	+1 207-217-6128
SF340B+	C&L Aviation Group	CT7-9B	425	1997	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340B+	C&L Aviation Group	CT7-5A	368	1995	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340A Cargo	C&L Aviation Group	CT7-5A	046	1986	Now	Sale	Fred Dibble	fred.d@cla.aero	+1 207-217-6128

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AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) AE3007A1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(2) AE3007	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
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
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(1) CF34-10E5A1	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF34-3B1	Now - Sale				
(1) CF34-8C5/B1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CF34-8E	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
(1) CF34-10E7	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B1F	Now - Sale / Lease	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2A5	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2B6F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B7F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B1F	Now - Lease	TrueAero	Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	
CFM56 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-3C1	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
(2) CFM56-5B	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CFM56-7B26	Now - Sale				
(1) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B22/3	Now - Lease				
(4) CFM56-5C4/P	Now - Sale / Lease	Castllake	Stuart MacGregor	stuart.macgregor@castllake.com	+44 207 190 6138
(2) CFM56-3C1	Now - Sale / Lease	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-7B20 TRUEngine™	Now - Sale / Exchange	CFM Materials	Jimmy Hill	Jimmy.Hill@cfmmaterials.com	+1 214-988-6670
(1) CFM56-7B24 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B27 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-5B4/P TRUEngine™	Now - Sale / Exchange				



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(1) CFM56-5C4/P	Now - Sale	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(4) CFM56-5C4	Now - Sale				
(1) CFM56-5B	Now - Sale / Lease				
(1) CFM56-7B	Now - Sale / Lease				
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werneraero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B4/3	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(2) CFM56-5C4/P	Soon - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-5B4/P	Soon - Lease				
(1) CFM56-7B24/3	Now - Lease				
CT7 Engines	Sale / Lease	Company	Contact	Email	Phone
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-219	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
GEEx Engines	Sale / Lease	Company	Contact	Email	Phone
(2) GEEx	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1A33	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121 (Dash 8)	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW121 (ATR)	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150 GRB	Now - Lease				
PW127	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Kryz	rkryz@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

PW4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) PW4056-3	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW4168A (unserviceable)	Q2/2018 - Sale	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) PW4060-3	Now - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4062-3	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4158-3	Apr 18 - Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) PW4056-3	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
(1) RB211-535E4	Apr 18 - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(3) Trent 800	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) Trent 892	Now - Sale/Lease/Exch.	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
1) V2533-A5 w/QEC	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
(1) V2527-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2523-A5	Now - Lease				
(1) V2527	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner-aero.com	+1-703-402-7430

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(1) A330-300 Landing Gear	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(2) A340-600 Landing Gear	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(1) A340-300 Landing Gear	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(2) GTCP331-500	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(2) GTCP331-350C	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(2) GTCP331-500B	Now - Sale/Lease/Exch.		Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) GTCP331-350	Now - Sale/Lease/Exch.		Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) APS 3200	Now - Sale/Lease/Exch.		Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) GTCP36-150RJ, (2) GTCP36-100M, (1) RE220RJ, (1) PW126 RGB, (1) PW901A	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) APS1000-C12, (1) APS1000-C3					
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				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
(3) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250, APS3200, APS2300, GTCP85-129H			Rich Lewsley	rlsley@logix.aero	+44.79.0021.8657
APU GTCP 331-500	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
Engine stands now available	Now - Lease				
(2) GTCP131-9B, (2) GTCP131-9A	Now - Sale / Lease	GA Telesis	Dave Dicken	ddicken@gatelesis.com	+1 954-676-3111
ENGINE STANDS: Trent 800, PW4000 112"V2500		National Aero Stands		support@stands.aero	+1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Werner-aero.com	+1 201-674-9999
GTCP36-300A, 737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
767-300 Winglets, LH-RH P/N 767-0010-5, -6, -7 & -8, SV- Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368