

# AVI TRADER WEEKLY AVIATION HEADLINES

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## WORLD NEWS

### Air Astana in profit rebound

Air Astana posted a profit of US\$39.1 million in 2017, returning to profit after its first ever loss in 2016. The airline recorded passenger growth of 12% and revenue growth of 22% in 2017, after negative growth in both 2015 and 2016 following the devaluation of the Kazakh Tenge in mid-2015. The airline carried 4.2 million passengers in 2017 and recorded total revenues of US\$754 million. Air freight uplift also grew by 23%. Capacity grew by 7%, with new routes added between Astana and Delhi and Astana and Kiev, and increased frequencies on flights to Bangkok, Beijing, Dubai, Istanbul, London, Moscow, Novosibirsk, Omsk, St. Petersburg, Seoul, Tashkent, Tbilisi, Urumqi and Yekaterinburg. The airline took delivery of its second Airbus A320 neo Family, an A321, and confirmed an order for five Embraer new-generation E2 regional jets, with deliveries starting in October 2018.

### Primera Air to fly from London to Washington this summer

Primera Air will begin direct flights five times a week from London Stansted to Washington Dulles airport, with flights commencing August 22. Primera Air will also increase flight frequency between London (Stansted) and Toronto to improve connectivity between these destinations. "We've been planning to add Washington from the beginning of the transatlantic flight project. We see a strong demand for this route and we are the first low-cost airline to start operations between both cities, offering people an affordable way of transatlantic travel," says Andri Már Ingólfsson, President and owner of Primera Air.



American is launching several new routes to Europe.

Photo: Airbus

## American Cargo to modernise technology

And extends European summer destinations

American Airlines Cargo has announced it will implement a next generation cargo management system. The new platform will transform the company's technology across the entire American Airlines Cargo footprint.

This is the Cargo organisation's largest investment to date—one that will position the company for future growth. The technology solution will significantly enhance the customer experience so American and its customers can grow faster together, the carrier said. Plus, it will bring exciting advancements to American's team members, modernising processes and systems globally.

American selected IBS Software, an IT solutions provider in the global aviation industry, to implement the cargo management system, iCargo. With the implementation of iCargo, American will migrate to a web-based, fully integrated technology

approach to this implementation to ensure day-to-day business functions run smoothly during the transition, minimising the impact go-live will have on partners and customers. The result will be new technology and streamlined processes that give American the agility necessary to stay at the forefront of the industry.

**"We will continue to push the boundaries to deliver an industry-leading experience,"**

said Rick Elieson, President, American Airlines Cargo.

platform connecting all of its critical business functions. Together, American and IBS are designing a multi-year, phased implementation and rollout strategy, which ensures the new technology and processes are brought into the business in a seamless manner. The carrier is committed to taking an iterative

"We will continue to push the boundaries to deliver an industry-leading experience," said Rick Elieson, President, American Airlines Cargo. "We are focused on modernising processes for our team and increasing transparency and flexibility for our customers. The rapidly changing cargo land-

Continued on page 3

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scape demands that we invest in the best of tools, so that our team can focus on doing what they do best—delivering an exceptional customer experience.”

In the meantime, American Airlines is adding four new destinations to its international network for summer 2018. To provide even more ac-

cess from Europe to the U.S. and beyond, the airline is introducing service from Philadelphia (PHL) to Budapest, Hungary (BUD), and Prague, Czech Republic (PRG); Chicago O’Hare (ORD) to Venice, Italy (VCE); and Dallas/Fort Worth (DFW) to Reykjavik, Iceland (KEF).

## AIRCRAFT & ENGINE NEWS

### LEAP engine fleet in service grows to 215 aircraft

With a year-end delivery of the Boeing 737 MAX aircraft to Mauritania Airlines in Africa, CFM International’s new LEAP engine is now providing power for airlines based in five continents. It is part of the unprecedented airline service ramp-up for the LEAP engine since entering service on the Airbus A320neo in August 2016. In just 18 months, the LEAP engine fleet in service has grown to 215 aircraft – and counting. The aircraft breakdown is approximately 140 LEAP-powered Airbus A320neos and about 75 LEAP-powered Boeing 737 MAXs now flying for 34 operators. And there’s no slowdown in the increasing rate for several years. By 2021, five years from the LEAP’s initial service entry, the number of LEAP engines in service will surpass the first 25-year total of its predecessor, the CFM56, in airline service. With more than 450 LEAP engines delivered in 2017, CFM International is pursuing the delivery of up to 1,200 LEAPs in 2018 – a figure that will further grow in 2019.

### Airbus Helicopters delivers 1300<sup>th</sup> helicopter from the H135 family

Airbus Helicopters delivered the 1300th helicopter from the H135-family, a number underlining the multipurpose lightweight twin-engine helicopter’s worldwide success. The global fleet of this type has accumulated a total of more than 4.5 million flight hours since the entry into service of the first helicopter in 1996. More than

### TUI Group takes delivery of first 737 MAX 8



TUI Group takes delivery of its first 737 MAX 8

Photo: Boeing

Boeing and TUI Group have celebrated the delivery of the operator’s first 737 MAX 8. The cleaner, quieter and more efficient airplane will play a key role in TUI Group’s ambition to operate Europe’s most carbon-efficient airlines.

The 737 MAX delivers the highest efficiency, reliability and passenger comfort in the single-aisle market by incorporating the latest technology CFM International LEAP-1B engines, Advanced Technology winglets, the Boeing Sky Interior, large flight deck displays, and other improvements. The efficiency gains have helped make the MAX the fastest selling airplane in Boeing history, with more than 4,300 orders to date from 92 customers worldwide. TUI Group has 51 additional orders of the 737 MAX 8 and four 787 Dreamliners. The Group also has 18 unfilled orders for the 737 MAX 10 and was the first European operator to select the latest and largest member of the 737 MAX family of airplanes.

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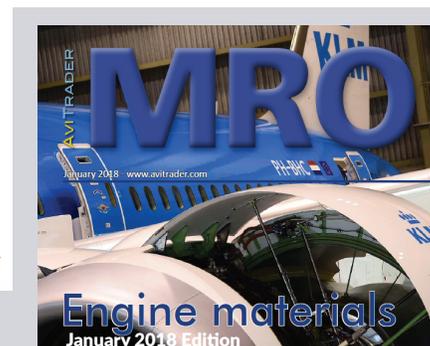
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**AIRCRAFT & ENGINE NEWS**

300 customers in 60 countries use helicopters from the H135 family for a wide range of missions including Emergency Medical Services (EMS), law enforcement, corporate transport, offshore wind and military flight training. The majority of the lightweight twin-engine helicopters of this type are operated in Europe (641), followed by North America (316) and Asia (195). The integration of Airbus Helicopter’s Helionix avionics suite in 2016 underlines the constant evolution of the H135 to help meet customers’ needs. The simple and intuitive avionics system incorporates a 4-axis-autopilot – already in use with the H175 and H145 – which further reduces pilots’ workload and provides an unrivaled level of safety.

**RUAG signs sustainment contract with the Netherlands Coastguard for two Dornier 228s**

RUAG Aviation, the OEM (original equipment manufacturer) of the Dornier 228, has renewed an aircraft sustainment contract with the Netherlands Coastguard. The agreement comprises full maintenance services for two Dornier 228-212 special missions. The signing of the aircraft sustainment contract between Dornier 228 OEM, RUAG Aviation, located at Oberpfaffenhofen, Germany, and the Netherlands Coastguard ensures the specialist support for the two Dornier 228-212 remains continuous since 2007 and now extends over three additional years. Each of the two Netherlands Coastguard Dornier 228-212 special mission aircraft are equipped with state-of-the-art communications technology, radar for the detection of environmental pollution, and an infrared camera system enabling mission-readiness under all conditions. The maritime patrol aircraft are deployed to fulfill a wide spectrum of coast guard tasks, including search-and-rescue, disaster and incident control, environmental supervision and border surveillance. Throughout the year, one aircraft and its crew are on standby for deployment above the North Sea, or elsewhere in Europe, twenty-four hours a day.

**Embraer receives delivery of first P&W Geared Turbofan™-powered production engines for E190-E2 program**

Embraer has taken delivery of the first two Geared Turbofan™ (GTF) PW1900G production engines for the E190-E2 aircraft. The engines were shipped to Embraer’s E2 final assembly line in São José dos Campos, São Paulo, Brazil, in late December, with plans to install the engines in February. The aircraft will enter into service with

**European Aviation acquires 10 A340 aircraft**



Two A340-600 aircraft at Bournemouth

Photo: Europe Aviation

European Aviation has signed an agreement to acquire 10 A340 aircraft from Abu Dhabi-based Etihad Airways. The aircraft, comprising seven A340-600 and three -500 series, will be delivered to European Aviation over the next few months, with delivery of the first aircraft into Bournemouth International Airport, U.K.

Widerøe Airlines (Widerøe), the largest regional airline in Scandinavia, in April. The PW1900G recently achieved type validation from Brazil’s Aviation Authority, the Agência Nacional de Aviação Civil (ANAC). This validation acknowledges the Part 33 Type Certification previously granted by the FAA for the engine and permits operation of the engine in revenue service in Brazil, and is also a critical prerequisite for Part 25 Type Certification for the airplane.

**Last Bombardier Global 7000 FTV completes first flight successfully**

Bombardier Business Aircraft has reported that the fifth and final test vehicle in the Global 7000 flight test program successfully completed its first flight, setting the stage for the program’s entry-into-service in the second half of this year. FTV5 will validate tests completed to date, ensuring a smooth entry-into-service for the Global 7000 aircraft. “The Masterpiece” joins four other test vehicles in the flight test program, which are demonstrating significant maturity, reliability and a smooth ride as they undergo extensive flight and ground tests. The Global 7000 flight test program is progressing to plan, and in recent months has completed several significant milestones, including the Global 7000 aircraft’s

first international deployment. Recent tests have successfully demonstrated the aircraft’s capability in crosswinds at high-altitude airfields and in all-weather conditions.

“With over 1,300 hours of rigorous flight testing completed, the results speak to the aircraft’s maturity, reliability and strong performance,” stated François Caza, Vice President, Product Development and Chief Engineer, Product Development Engineering. “In addition to flight testing, we continue to successfully progress our ground test program and have now met the full airframe fatigue test milestone as required by authorities for entry-into-service. We will continue to advance the Global 7000 test program to ensure the aircraft meets or exceeds the highest level of safety.”

**AEI delivers 27 freighter conversions in 2017**

Aeronautical Engineers (AEI) has delivered 27 freighter conversions to leasing and operator customers worldwide in 2017. AEI delivered twenty-one (21) B737-400SF freighters, followed by four (4) MD-83SF freighters, one (1) MD-82SF freighter and one (1) CRJ200 SF freighter. Preceding this news, AEI also announced that the company delivered its 100th overall B737-400SF freighter, which was a sig-

nificant achievement in the company's history. "2017 turned out to be another stellar year for AEI freighter conversion deliveries," said Robert Convey, AEI Senior Vice President of Sales & Marketing. "We expect 2018 deliveries to be comparable to 2017 with 12 aircraft currently undergoing conversion and an existing total backlog of 23 aircraft scheduled for delivery in 2018. Over the next several weeks we will be announcing additional firm orders for conversions scheduled to begin modification in 2018." The B737-400SF will again represent the majority of freighter conversions scheduled for 2018; however, more deliveries for the CRJ200 SF will be represented as the company currently has 7 aircraft scheduled for completion this year. Additionally, AEI will certify the new B737-800SF freighter conversion in 2018, of which the company already has over 100 firm orders and commitments for the freighter.

**Honeywell launches new APU Engine Rental Bank service for Airbus A330 and A340 aircraft**

Honeywell has joined forces with rental dealership Logix Aero to provide an auxiliary power unit Engine Rental Bank that loans Honeywell's 331-350C auxiliary power units to operators with Airbus A330 and A340 aircraft. "There is an increasing need for local services to help operators maintain their aircraft, and customers are looking toward rental dealerships to provide short-term and long-term APU rental solutions," said Jean-Christian Morin, president, Logix Aero. "We're working with Honeywell to provide airlines with rentals for Airbus A330 and A340 aircraft when they need them and without having contractual obligations toward the repair of their core units." The agreement permits operators to rent, rather than purchase, an auxiliary power unit (APU) with the added benefit of allowing them to use the maintenance service of their choice for existing equipment. This removes the need to prepare separate contracts with Honeywell for APU purchase, upkeep and repair, helping to save on costs and reduce downtime. Working with Logix Aero will see Honeywell deliver its 331-350 APUs to operators without a direct repair contract for the first time. Customers can choose to rent over a period that addresses their business and operational needs, whether on a short-term basis to cover maintenance time on existing equipment, or over a longer term. APUs are flown by the operators during the loan period and returned to Logix Aero when it ends.

**Oman Air takes delivery of first 737 MAX**



Oman Air's first 737 MAX departing Seattle

Photo: Craig Larsen

Oman Air has taken delivery of its first 737 MAX airplane, one of 30 that Oman Air will operate as it expands its fleet and service. The flag carrier of the Sultanate of Oman has long operated the efficient and reliable Boeing 737. With the MAX, Oman Air will be able to achieve a double-digit percentage improvement in fuel efficiency. Oman Air ordered 20 MAX airplanes in October 2015 and has since entered into a lease agreement for 10 more of the jets. The new airplanes will grow the Muscat-based carrier's fleet of 27 737s and seven 787 Dreamliners.

**MRO & PRODUCTION NEWS**

**Airinmar signs Repair Cycle Management agreement with Azul**

AAR subsidiary Airinmar, a leader in the provision of intelligent component repair cycle management and aircraft warranty solutions for commercial and defense customers, has signed a three-year agreement with Azul, one of the leading airlines in Brazil, to enhance its supply chain management and performance. "Airinmar's unique services and collaborative approach are the perfect fit for helping Azul maintain our leading position in this competitive market," said Cesar Okajima, Supply Chain Director, Azul. "Optimizing our supply chain and decreasing costs will support our airline's continued growth."

**StandardAero to provide Pratt & Whitney Canada's APS2300 APU MRO services for S7 Airlines**

StandardAero has been awarded a four-year contract to support the Pratt & Whitney Canada (P&WC) APS2300 auxiliary power unit (APU) maintenance, repair and overhaul (MRO) services for Russian-based S7 Airlines' fleet of Embraer E-Jet E170 aircraft. All services will be provided at StandardAero's Maryville, TN, facility. S7 is one of the largest Airlines in Russia, with a total fleet of 80 aircraft, and will be the biggest Embraer operator in the country as they expand their fleet of E-

Jet E170s to 17 aircraft by the end of 2018.

**GA Telesis and Aero Engine Solutions enter into CFM56-5B and CFM56-7B material agreement**

GA Telesis (GAT) has entered into a supply chain agreement with Aero Engine Solutions (AES) to provide CFM56-5B and CFM56-7B materials for GAT's Helsinki-based engine overhaul shop, GA Telesis Engine Services (GATES). This agreement provides an expanded pipeline of OEM repaired and serviceable material for GATES customers which can offer additional cost savings and secure a large volume commitment for AES. "As our CFM56 engine repair and overhaul programs continue to grow at GATES, adding a strong partner like AES is essential to ensure a steady pipeline of materials," said Alex Tuttle, Vice President of GA Telesis Engine Solutions Group. "My team and I are excited for this opportunity and confident that this program will benefit both AES and GAT. Over the next two years, we plan to significantly ramp up our teardown and partnerships on the CFM56 product line as a whole," Mr. Tuttle added.

**StandardAero authorized as maintenance partner for Honeywell TFE731 turbofan engines in the EMEAI Region**

StandardAero has been authorized by Honeywell Aerospace as the exclusive provider in the Europe, Middle East, Africa and India (EMEAI) re-

**MRO & PRODUCTION NEWS**

gion for major maintenance repair and overhaul services (MRO) for the Honeywell TFE731 family of turbofan engines. The new agreement authorizes StandardAero as the only maintenance facility, located in the EMEA region, licensed to perform both Core Zone Inspections (CZIs) and MSP covered Major Periodic Inspections (MPIs). The authorization includes non-MSP covered engine maintenance as well. Additionally, StandardAero is authorized to perform line level maintenance on the 36-series APUs for business aviation aircraft operators in the EMEA region. The authorization, effective January 1, 2018, is a long-term agreement whereby StandardAero anticipates supporting more than 1,500 MPI & CZI engine events over the life of the contract. The establishment of a Europe-based TFE731 shop allows StandardAero to expand on its strong US-based network of MRO facilities. After a thorough program evaluation, StandardAero will perform TFE731 MPI and CZI engine events for EMEA operators at the company's Fleetlands, U.K. facility. As part of the agreement, StandardAero will also stand up Europe-based Mobile Service Teams to provide on-site service to support approximately 600 operators in the region.

**AAR signs long-term component repair contract with Russia's Utair**

AAR, a worldwide provider of aviation services to commercial airlines and governments, has announced a long-term agreement between AAR Aircraft Component Repair – Amsterdam and the Russian airline, Utair Aviation. Under the eight-year deal, AAR provides component repair and exchange for Utair's B737 and ATR fleets, as well as reliability engineering support to improve on-wing component reliability.

**SR Technics and Ural Airlines sign a long-term contract**

SR Technics is extending the engine maintenance partnership with Ural Airlines for another six years, covering the airline's CFM56-5B fleet. The new contract was signed in December 2017, and

**First A321LR successfully completes maiden flight**



Airbus' first A321LR (Long Range), MSN7877, has accomplished its maiden flight Photo: Airbus

Airbus' first A321LR (Long Range), MSN7877, has accomplished its maiden flight following a mission lasting 2 hours and 36 minutes. The aircraft, powered by CFM Leap-1A engines, is now set to undergo a nearly 100-hour flight test program, including trans-Atlantic missions, for EASA and FAA Type Certification in Q2 2018. Entry into service is targeted for Q4 2018. During the flight, the crew tested the aircraft's flight controls, engines and main systems including flight envelope protections, both at high and low speed. The A321LR features a new door configuration, enabling its operators to accommodate up to 240 passengers in Airbus' widest Single Aisle fuselage in the sky. The new Airspace by Airbus cabin available on the A320 Family additionally enhances the passengers' unrivalled travel experience. With further options, combining an increased Maximum Take Off Weight (MTOW) of 97 tons and a third Additional Centre Fuel Tank (ACT), the aircraft's range extends to 4000nm (7400 km), allowing airlines to tap into new market opportunities.

services on the carrier's engines are set to begin in the second quarter of 2018. All work will be done at the SR Technics facilities in Zurich. "SR Technics' expertise, high-quality services and efficient approach for our CFM56-5B fleet is much appreciated and we are pleased to expand our Engine Service business further," said Andrey Melnikov, Head of Budget Planning and Material Support at Ural Airlines.

**LHT engine overhaul facility in Hamburg invests in future technologies and growth**

The Engine Services division of Lufthansa Technik AG in Hamburg is gearing up for the future. With the simultaneous opening of a new competence center for engine case repair and an X-ray center for engine components of all different sizes, Lufthansa Technik is preparing for future engine types and a growing business in engine maintenance. The company invested around €7 million



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**MRO & PRODUCTION NEWS**

US\$8.4 million). State-of-the-art tools and equipment are the basis for the introduction of new repair procedures. At the same time, the variety of engine types overhauled at the facility can be increased significantly, and turnaround time can be reduced to just three weeks. The division assumes that orders for this product will double over the coming three years. The new X-ray center with its two systems can screen components flexibly, from the smallest engine blade up to future engine cases with a diameter of 3.5 meters – and do so digitally as well as in analog mode. Recurring inspection requirements can be stored and the inspections automated in the future. Planning for a second stage of construction in 2019 is already underway; it will extend capacity yet again.

**FINANCIAL NEWS**

**Boeing HorizonX invests in advanced battery technology startup Cuberg**

Boeing has reported its investment in Berkeley, Calif.-based Cuberg, a startup founded by former Stanford University researchers developing next-generation battery technology for potential aerospace and industrial applications. Cuberg developed an advanced battery cell that is designed to be a drop-in solution to existing large-scale battery manufacturing processes. It combines a lithium metal anode, proprietary electrolyte and high-voltage cathode to achieve high energy density and thermal durability.

“Cuberg’s battery technology has some of the highest energy density we’ve seen in the marketplace, and its unique chemistries could prove to be a safe, stable solution for future electric air transportation,” said Steve Nordlund, vice president of Boeing HorizonX.

Since it was established in April 2015, Cuberg has grown with several rounds of financing and grant funding, and signed a multimillion-dollar joint development agreement with an industrial battery manufacturer. Cuberg CEO Richard Wang is currently a member of the Cyclotron Road entrepreneurial research fellowship program located at Lawrence Berkeley National Laboratory. Cuberg previously participated in the TomKat Center for

Sustainable Energy’s Innovation Transfer Program at Stanford University and was named one of the top seven startups in the U.S. Department of Energy’s 2016 National Cleantech University Prize competition.

**Rockwell Collins reports FY’18 first-quarter financial results**

Rockwell Collins has reported sales for the first quarter of fiscal year 2018 of US\$2.011bn, a 69% increase from the same period in fiscal year 2017, or 9% organic growth excluding US\$716m of revenue from the acquisition of B/E Aerospace. First-quarter fiscal year 2018 earnings per share was US\$1.69 compared to US\$1.10 in the prior year’s first quarter. Earnings per share for the first quarter of fiscal year 2018 included a 37-cent discrete income tax benefit from the enactment of the Tax Cuts and Jobs Act. Adjusted earnings per share for the first quarter of fiscal year 2018 was US\$1.59 compared to US\$1.22 in the prior year’s first quarter. Cash used for operating activities was US\$259m for the first quarter of fiscal year 2018, compared to a use of cash of US\$101m in the first quarter of fiscal year 2017. The increase in cash used for operating activities was due primarily to higher payments for production inventory and other operating costs, as well as higher employee incentive payments, partially offset by higher cash receipts from customers.

**Boeing reports record 2017 results**

Boeing has reported fourth-quarter revenue of US\$25.4bn with GAAP earnings per share of US\$5.18 and core earnings per share (non-GAAP) of US\$4.80, reflecting record deliveries and strong performance, as well as favorable tax reform of US\$1.74 per share. Revenue was US\$93.4bn for the full year, reflecting deliveries mix with GAAP earnings per share of US\$13.43 and core earnings per share (non-GAAP) of US\$12.04 reflecting strong execution and favorable tax reform. Operating cash flow in the quarter of US\$2.9bn was driven by strong operating performance. During the quarter, the company repurchased 6.7 million shares for US\$1.7bn and paid US\$0.8bn in dividends. For the full year, the company repurchased 46.1 million shares for US\$9.2bn and paid US\$3.4bn in dividends.

Commercial Airplanes fourth-quarter revenue increased to US\$15.5bn on higher planned delivery volume and mix. Fourth-quarter operating margin increased to 11.5%, reflecting strong execution. During the quarter, Commercial Airplanes delivered a record 209 airplanes and the 787 program rolled out the first 787-10 airplane expected to deliver to launch customer Singapore Airlines. The 737 program delivered 44 MAX airplanes during the quarter and has captured over 4,300 orders since launch for the 737 MAX, including a recent order from flydubai for 175 airplanes. Development on the 777X is on track as production began on the first 777X flight test airplane this quarter. Commercial Airplanes booked 414 net orders during the quarter. Backlog remains robust with over 5,800 airplanes valued at US\$421bn.

**STS Component Solutions acquires aircraft interiors specialists, UJet Group**

STS Component Solutions grows its aviation aftermarket portfolio by strategically acquiring UJet Group, an aircraft interior modification and refurbishment company based out of Shannon, Ireland. Through this acquisition, STS Component Solutions will now offer its growing customer base robust aircraft interior refurbishment and parts services under the newly formed brand, STS UJet. STS UJet will continue to operate out of Shannon, Ireland and is expected to remain the region’s premier FAA/EASA 145-approved aircraft interior repair shop. STS UJet’s current offerings include complete aircraft interior refurbishment and modification, cabin reconfiguration, seats and support services.

**OTHER NEWS**

**Norwegian Air Argentina (NAA)** received the **Air Services Operator Certificate (AOC)** from the National Government on January 26. The document recognizes the company as a commercial airline and certifies that it complies with safety and quality standards to carry out aeronautical operations and activities, in accordance with the law of the Argentine Republic. Norwegian Air Argentina is an Argentine airline and was set up in March 2017. On December 11<sup>th</sup>, 2017, the Argentine Government granted Norwegian Air Argentina 152 routes; among them, 72 domestic destina-



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**OTHER NEWS**

tions and 80 international. The company received its first aircraft, a Boeing 737-800 on January 15<sup>th</sup>, with local Hero Astor Piazzolla as the Tail Fin Hero.

MRO service provider **SR Technics**, has joined the **Latin American and Caribbean Air Transport Association (ALTA)** as an Affiliate Member, effective January 16, 2018. ALTA safeguards the interests of the region's industry by facilitating the development of safer, more cost-efficient and environmentally friendly air transport in the Latin America and Caribbean region. The membership will provide SR Technics with a seat at the association's Technical Committee meetings and allow the MRO to present its products directly to member airlines. In addition, SR Technics will have access to the information and statistics the association collects on trends in LATAM. Michael Sattler, Chief Commercial Officer at SR Technics, said about the new membership: "We are very pleased to be joining ALTA and we look forward to becoming a part of the association's network with the opportunity to exchange knowledge and best practices with industry experts. Additionally, the membership will provide us with further insight into the Latin American and Caribbean aviation community to better serve our customers and to explore new market opportunities in the region."

**SmartSky's airborne network** got a boost from the Federal Aviation Administration (FAA) on January 29. **Avidyne Corporation**, SmartSky's avionics manufacturing partner, was awarded the first supplemental type certificate (STC) that provides for the installation and operation of a SmartSky 4G LTE system, in this case, on a Cessna Citation Excel. SmartSky expects these follow-on STCs to commence availability this summer. That timing aligns well with the planned completion of the majority of the network coverage expansion effort currently underway across the continental

United States. Avidyne CEO Dan Schwinn stated, "With this pioneering first STC in hand, we expect to receive Parts Manufacturer Approval (PMA) from the FAA shortly. PMA is the catalyst for SmartSky's partners to complete their STC commitments on many other popular business aircraft, and that then enables customers to install and use the system."

**Boeing**, through its subsidiary **Jeppesen**, has added new chart and navigation data coverage areas in South Africa for its iPad-based Visual Flight Rules cockpit application for private pilots – Jeppesen Mobile FliteDeck VFR. "The addition of South African coverage areas opens new geographical flying territories for users of Mobile FliteDeck VFR and expands our global general aviation presence with this strategic market," said Tim Huegel, Director, Flight Deck Solutions, Boeing Global Services. "We also have added capabilities for Mobile FliteDeck VFR that are based on pilot input, to improve the VFR flying experience and enhance access to essential flight information on the ground and in the air." New VFR-based data coverage areas include South Africa, Lesotho and Swaziland, and are now available as a subscription purchase, featuring identical charting and navigation capabilities of other global coverages.

**Ryanair** has confirmed that it has signed a formal Union Recognition agreement with **BALPA (British Airline Pilots Association)**, who will now be the sole representative body for Ryanair-employed Pilots in the U.K. This agreement follows extensive negotiations with BALPA since Ryanair's December announcement that it was willing to recognize unions for collective bargaining purposes. While these recognition negotiations were continuing with BALPA, the six remaining Ryanair U.K. bases (including Stansted) voted – in a secret ballot – to accept pay increases of up to 20%, which had already been agreed by a majority (9) of other UK bases. Ryanair welcomes the positive and constructive engagement of BALPA which led

to the formal signing of this recognition agreement within five weeks of the first meeting. This recognition agreement with BALPA is significant because the U.K. accounts for almost 100 of Ryanair's 400+ current aircraft fleet and over 25% of Ryanair's pilot body.

**MTU Maintenance**, one of the world's leading providers of services for commercial aero engines, has started an augmented reality pilot project at its facility in Berlin-Brandenburg. The project goes by the name "Inspection 4.0" and aims to improve knowledge management in the shop. Inspection 4.0 has two main goals: the first is to centralize all data regarding a specific part into one system. This has the benefit of reducing the amount of time mechanics spent switching between documents and enabling them to focus on inspecting the part in question. Secondly, the real and virtual world of maintenance will merge – data will be transferred to tablets or smart glasses so that the mechanic has a complete overview at all times. MTU Maintenance is collaborating with the **Brandenburg University of Technology Cottbus-Senftenberg** on the project, with key development taking place in Berlin. The project is supported by **Brandenburg Invest (WFBB)** and the **Investitionsbank des Landes Brandenburg (business promotion bank of the federal state of Brandenburg)**. Development of the project will continue until July 2019, after which results will be analyzed and once applicable, presented to the Federal Aviation Office of Germany for the relevant approvals. **MTU Maintenance Berlin-Brandenburg** is the center of excellence for small aero engines and industrial gas turbines within the **MTU Maintenance global network**.

**Magnetic MRO**, a global Total Technical Care maintenance and asset management organization, has announced that it is launching a dedicated training facility in **Tallinn** to serve a variety of industry needs. Magnetic MRO has been providing a wide range of training courses from specialized engine training to advanced type training



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since 2016. Magnetic MRO CEO Risto Mäeots stated: "The demand for the high-quality training has been growing and this triggered Magnetic MRO to continue increasing its course portfolio. It was a natural step for us to move into dedicated and bigger premises. Well-trained specialists are the backbone of our industry." The new location is structured based on the EASA Part-147 requirements; rooms are spacious, exposed to natural light, tailored to each course's necessities, and equipped with all required theoretical training materials. The classroom is in the close vicinity to the maintenance facilities, enabling first-class hands-on and practical experience.

**Xiamen Airlines** signed a Memorandum of Understanding (MoU) with **GE** to further strengthen the strategic cooperation between the parties. The MoU will cover several areas including fleet management support and services, digital solutions, leadership training and aviation health management programs, as well as intra-industrial alignment and cooperation to support the globalization of Xiamen Airlines. "We have a long-term cooperation with GE since we started to operate

the first CFM56\* engine in 1992," said Zhao Dong, President of Xiamen Airlines. "I believe the signing of the MoU will pave the ground to help us reinforce and further expand the cooperation. We're looking forward to leverage more enriched experience from GE and its CFM joint venture on full spectrum of operation and management to benefit future growth of Xiamen Airlines."

The **EU Court of Justice** has upheld the March 2012 decision of the **EU Commission** to fine a number of freight forwarding companies over cartel charges, dismissing an appeal lodged by companies located in Europe, Asia and the Far East.

In a statement, the EU's top court said: "The Court of Justice rejects all the arguments put forward by those companies and upholds the amount of the fines imposed,"

The original fines of €169 million (US\$ 203 million) related to a period of time between 2002 and 2007 when these companies participated in a number of agreements and concerted practices on the market for international air freight forwarding services.

The companies were responsible for providing services included the organization of transportation of items, and could also include activi-

ties such as customs clearance, warehousing or ground services, on behalf of customers according to their needs. The 'new export system' (NES) cartel concerned a pre-clearance system for exports from the U.K. to countries beyond the European Economic Area, which was introduced by the U.K. authorities in 2002. A group of freight forwarders agreed to introduce a surcharge for NES declarations. The 'currency adjustment factor' (CAF) cartel was devised to achieve agreement on a common tariff strategy to mitigate a risk of a fall in profits owing to the decision of the People's Bank of China in 2005 that it would no longer peg the Chinese currency (renminbi or RMB) to the United States dollar (USD). Several international freight forwarders opted to convert all contracts with their customers into renminbi and to introduce a CAF surcharge, setting the amount. The companies originally fined included, but was not limited to, logistics groups Kuehne & Nagel, Panalpina, Schenker, Deutsche Bahn, UPS Supply Chain Solutions and DHL Global Forwarding (UK) Ltd.

**Flughafen München GmbH (FMG)** has launched an **Information Security Hub (ISH)** on site, comprising a competence center for IT specialists who will also cooperate with experts with in the



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European aviation industry to develop specific strategies and new approaches to defend against cyber attacks and to fight cybercrime in general. With continual advancements in digitization over recent years, there has also been a substantial increase in cyber-attacks on IT systems in companies and public authorities in Germany. Munich Airport itself is subjected to numerous attacks on a daily basis.

Thomas Weyer, FMG's CFO and Director of Infrastructure commented: "As an airport operating company, we are responsible for the functionality of critical infrastructure and must take up the fight every day to ensure protection against cyberattacks," adding that: "Attacks on IT systems around the world have taken on new dimensions in terms of quality and quantity in recent years. New viruses, worms and malware are constantly being developed and turned loose on potential vulnerabilities in our IT systems. The further we move ahead with digitalization, and the more functions are performed and networked by computers, the more potential points of attack they will present to global cybercriminals – and the more serious the potential consequences of targeted attacks will become."

The competency center has four training rooms and IT labs, a control room and an amphitheater for presentations and briefings. All of the facilities have computers, network hardware, cameras and projectors such that, for example, a group can carry out realistic attacks on IT systems for training purposes, while a second group can be assigned to take defensive measures.

The work of the ISH will not relate exclusively to IT security at the airport. Additional activities will involve cooperation between companies and across industry boundaries. Enterprises, public authorities and other institutions will be able to train security experts for their organizations and conduct detailed testing of innovative technologies and processes. The principal targets of the Information Security Hub will be airports, airlines and other partners from the aviation industry that will be required meet the new regulatory requirements for the transportation sector as providers of critical infrastructure.

FMG is part-owned by the **Free State of Bavaria** (51%), the **Federal Republic of Germany** (26%) and **Munich**, the state capital (23%). The com-

pany has made significant contributions to the development of Munich Airport to create one of the most important air transport hubs in Europe.

ATR will add a brand-new Full Flight Simulator (FFS) to its Toulouse Training Center. Manufactured by CAE, this new simulator will allow crew members to receive training on the ATR 72-600. Based at ATR headquarters, this simulator will be both EASA- and FAA-certified. It will enable ATR to provide its customers and operators with an extended capacity for training, with 4,500 additional training hours per year. It will start operations as of July 2018. This extension is in line with ATR's customer support strategy to provide easy access to optimized pilot training solutions for its customers worldwide. ATR recently equipped its Paris Training Center with an ATR 72-600 FFS, and ATR's Toulouse Training Center is already equipped with simulators to support ATR 42-300/500, 72-200/500, and the latest ATR 72-600 variant.



ATR's new simulator will expand training capacity for ATR 72-600 pilots  
Photo: ATR

pany has made significant contributions to the development of Munich Airport to create one of the most important air transport hubs in Europe.

**The United States International Trade Commission (ITC)** has ruled against **Boeing** in its case brought against Canadian **Bombardier's** CSeries and the sale of 75 jets to American carrier **Delta Air Lines** in 2016 at what was seen to be a 'dumping' price. The initial reaction from the U.S. on suspecting this to be the case was for the **U.S. Department of Commerce (DOC)** to impose a tariff of 219.63% for each CSeries jet imported into the United States.

Boeing claimed that the deal had harmed the aerospace giant, but the U.S. ITC sided more with Bombardier's argument that the CSeries jets had not been illegally subsidized and nor had Boeing suffered any harm as the company does not currently produce 100-seater planes. It is over 10 years since Boeing canceled production of the 717, the only aircraft of a comparable size. The

result of this ruling by the ITC means that the threatened tariff to be imposed by the DOC is no longer enforceable, though Boeing still has room to appeal to the International Court of Trade in New York, while the U.S. government could take the case to the World Trade Organization. Bombardier said in a statement that: "Today's decision is a victory for innovation, competition, and the rule of law."

Boeing was understandably less pleased, stating that the company was "disappointed" with the result, and that: "Those violations have harmed the U.S. aerospace industry, and we are feeling the effects of those unfair business practices in the market every day."

**The African Union (AU)** has launched a **Single African Air Transport Market** initiative to both improve intra-African air connectivity and open up the continent's skies. With enhanced connectivity demand should be stimulated, as well as competitiveness of the airline industry improved

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and air travel made more accessible. In turn, higher volumes of trade should be achievable and a growth in tourism seen, along with improved trade between African nations and beyond. According to Raphael Kuuchi, IATA's Vice President for Africa: "The SAATM has the potential for remarkable transformation that will build prosperity while connecting the African continent. Every open-air service arrangement has boosted traffic, lifted economies and created jobs. And we expect no less in Africa on the back of the SAATM agreement. An IATA survey suggests that if just 12 key African countries opened their markets and increased connectivity an extra 155,000 jobs and US\$1.3 billion in annual GDP would be created in those countries."

Kuuchi added that: "We commend the 23 States that have signed up to SAATM. It is an important step forward. But the benefits of a connected continent will only be realized through effective implementation of SAATM—firstly by the countries already committed and also by the remaining 32 AU member nations still to come on board."

Two previous open skies pledges, the 1988 Yamoussoukro Declaration and the 1999 Yamoussoukro Decision, failed to be successfully implemented owing to an absence of an underpinned regulatory text. The AU has now chosen to adopt the regulatory text of the Yamoussoukro Decision which covers competition and consumer protection and dispute settlement, as these safeguard the efficient operation of the market.

INDUSTRY PEOPLE



Jeff Shockey

- Boeing has named **Jeff Shockey** Vice President of Global Sales and Marketing for its Defense, Space & Security unit, effective immediately. Shockey, who joined Boeing in 2016 as Vice President of Federal Affairs and

International Policy, succeeds **Tom Bell**, who took a position at another company.



Robin Glover-Faure

- L3 Commercial Training Solutions (L3 CTS) has appointed **Robin Glover-Faure** as its new president. Mr. Glover-Faure succeeds **Alan Crawford**, who will now lead the newly established L3 Commercial Aviation Solutions (CAS) sector, which includes CTS

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Operating Lease Seminar 2018

March 20, 2018 - Hilton Garden Inn Hotel, Dallas

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April 18, 2018 - Gibson Hotel, Dublin, Ireland

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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and L3's Aviation Products businesses. Mr. Glover-Faure joined L3 CTS in 2016 as Vice President of Airline Training. Prior to this, he had 20 years of experience at British Airways, where he was latterly Head of Short-haul business.

- Brian Sartain** has joined global aftermarket solutions company AAR in the new position of Senior Vice President, Repair and Engineering Services, reporting to President and Chief Operating Officer **John M. Holmes**. In this senior leadership role, Sartain will oversee AAR's MRO Services, Component Repair, Engineering Services, Landing Gear Services and Composites market solutions. Sartain has more than 25 years of aerospace experience, most recently as Executive Vice President, Aerospace, with Chromalloy Gas Turbine, a global technology company providing integrated solutions for OEMs, commercial airlines, militaries and energy companies.

- Mike Harris** has been named Vice President and General Manager for TurbineAero Engines Technics' (TET) business unit. TET is the component and coatings division of TurbineAero, offering repair and coating services to APU and gas turbine engine derivative customers across the world. Most recently, Harris was the General Manager for Chromalloy Gas Turbine's Eastern U.S. Region where he led the organization to achieve significant improvements in operational and growth program performance.

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Publisher

Peter Jorssen

Tel: +1 604 318 5207

Editor

Heike Tamm

editor@avitrader.com

Tel: +34 (0) 971 612 130

Advertising Inquiries and Customer Support

Jenny Vogel

jenny.vogel@avitrader.com

Tel: + 49 (0) 8761 346 007

For inquiries and comments, please email:

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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
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	25417	1991	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	34701	2006	Q1/2018	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	Aersale	CFM56-7B26	32917	2002	Q1/2018	Sale / Lease	Sally Browne	Sally.Browne@aersale.com	+353 86 021 4841
B737-800	Aersale	CFM56-7B26	32624	2001	Q1/2018	Sale / Lease	Sally Browne	Sally.Browne@aersale.com	+353 86 021 4841
B737-800	World Star Aviation Services	CFM56-7B26	32604	2002	Now	Lease	Paulo Bettencourt	pbettencourt@worldstaraviation.com	+1 415-956-9454
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
B747-400BCF	Jet Midwest	PW4056-3	27044	1990	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296
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 / Turbo Prop 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	Jet Midwest	CT7-9B	320	1992	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296
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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Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
<b>AE3007 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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
<b>CF34 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
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
<b>CF6 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	
<b>CFM56 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) CFM56-3C1	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
(1) CFM56-5A3	Nov 17 - Sale / Lease				
(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				
(2) CFM56-5C4/P	Now - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) CFM56-3C1	Now - Sale				
(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@werner aero.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				
<b>CT7 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT9D-7R4D-E	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) JT8D-219	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
<b>GEnx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) GEnx	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) LEAP-1A33	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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 Krysz	rkrysz@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
(1) PW4168A-1D	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(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	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				
(2) A340-600 Landing Gear	Now - Sale				
(1) A340-300 Landing Gear	Now - Sale				
(2) GTCP331-500	Now - Sale				
(2) GTCP331-350C	Now - Sale				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(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,			Rich Lewsley	rlsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTCP85-129H					
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
B737-400 main landing gears, with 2015 tags		World Star Aviation Services	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-22000
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