

Weekly Aviation Headline News

WORLD NEWS

IFA Aviation buys ALSIM simulator

IFA Aviation Training Centre acquired a flight simulator, class FNPT II, completing another step in its flight school modernisation strategy. "An acquisition planned for 2018, it's a huge investment which will bring us a significant increase on our training quality", said Luis Giraldes IFA's Marketing Director. "An essential training tool that enables students to acquire skills in a wide variety of aircraft ranging from single-engine and twin-engine to analogue or digital panel as well as specific models such as ATR Cessna Citation and Airbus 320."

Cobalt Air launches new loyalty card

Cobalt Air, Cyprus' largest airline, has announced the introduction of a loyalty card – Cobalt Elements. The recognition card offers a suite of seat upgrades, fare discounts, priority check-in/boarding, increased baggage allowance and other incentives to frequent flyer members across Cobalt's 21-strong European and Middle East route network.

Qatar Airways to launch direct flights to Da Nang, Vietnam

Qatar Airways announced the launch of direct flights to Da Nang, Vietnam, starting 19 December 2018. The coastal city will be the third Vietnamese destination on the airline's rapidly expanding global network. The four-times weekly flights will be served with a Boeing 787-8 aircraft, featuring 22 seats in Business Class and 232 seats in Economy Class. Da Nang, one of the largest cities in Vietnam.



Cruz said BA suffered its worst data breach in 20 years.

Photo: British Airways

British Airways data breach

Airlines must increase investment in technology

Following the news that British Airways (BA) has suffered a data breach which compromised the card payment details of 380,000 customers, concerns over cyber security are one again in the spotlight.

British Airways is investigating, as a matter of urgency, the theft of customer data from its website, ba.com and the airline's mobile app. The stolen data did not include travel or passport details, the airline assures.

From 22:58 BST August 21, 2018 until 21:45 BST September 5, 2018 inclusive, the personal and financial

details of customers making bookings on ba.com and the airline's app were compromised.

Alex Cruz, British Airways' Chair-

man expressed concern that it took 16 days for the breach to be detected, which is shockingly slow in this post-GDPR world - The General Data Protection Regulation 2016/679 (GDPR) is a regulation in EU law on data protection and privacy for all individuals within the European Union and the European Economic Area.

"British Airways joins a growing list of organisations that have faced a knock down punch."

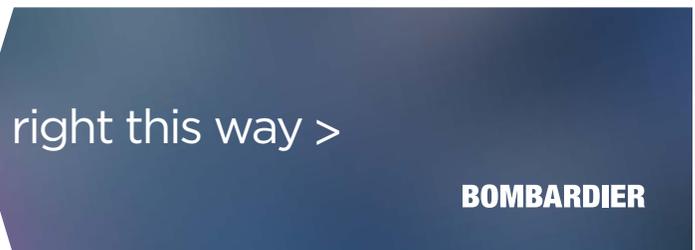
Israel Barak, Chief Information Security Officer at Cybereason

man and Chief Executive said "We are deeply sorry for the disruption that this criminal activity has caused. We take the protection of our customers' data very seriously."

Some experts in the cyber security

Israel Barak, Chief Information Security Officer at Cybereason, said, "The British Airways breach once again sheds light on the difficulty companies have protecting the proprietary information of their

Continued on page 3



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customers that is their backbone. Collectively, this is a blow to our privacy and British Airways joins a growing list of organisations that have faced a knock down punch. For the consumer, they should be working under the assumption that their personal information has been compromised many times over. As an industry until we can start making cybercrime unprofitable for adversaries they will continue to hold the cards that will yield potentially massive pay-outs."

British Airways has been blighted with IT issues

over the last 18 months, with big application failures causing flights to be cancelled in July and over Bank Holiday weekend in May 2017. The impact of poor application performance has disappointed thousands of customers who have not been shy in voicing their dismay. It seems the global airline industry should regularly monitor the security and performance of their applications, and not only focusing on keep the planes in the sky.

Paul Farrington, Head of EMEA at app security company CA Veracode, added that IT issues

are not only affecting BA, but also in the wider airline industry. "Airlines have a duty to keep the planes in the air, and most of the investment goes into that. However, recent outages show investment should also be directed at technology. As airlines become ever more dependent on software, this creates a greater surface for hackers to attack and so it is no surprise that breaches of this scale are becoming commonplace."

BA says the breach has been resolved and the website is working normally.

AIRCRAFT & ENGINE NEWS

NAC and BeauTech sign agreement for purchase of 25 Embraer E190 aircraft from Air Canada

Nordic Aviation Capital (NAC) has entered into an agreement with BeauTech Power Systems (BeauTech) for the purchase of 25 Embraer E190 aircraft which BeauTech has arranged to purchase from Air Canada. The 25 aircraft have short lease-back periods with Air Canada over the forthcoming 18 months. This transaction serves to further establish NAC's position as one of the largest lessors in the regional jet and turboprop sector. With the downstream acquisition of a certain number of the aircraft following their lease return, this deal also strengthens BeauTech's position as a premier regional jet engine lessor, with one of the largest portfolios of CF34-leased engines in the global market. BeauTech Power Systems leases regional and narrow-body commercial aircraft engines to airlines, OEMs and Maintenance Repair and Overhaul (MRO) service providers worldwide. Based in Dallas, Texas, BeauTech specializes in CF34 and CFM56 engines and its lease portfolio includes all CF34 engine model variants operated on the CRJ and E-Jet platforms.

Embraer delivers fifth Legacy 450 to Canada's AirSprint



Canada's AirSprint takes delivery of fifth Legacy 450

Photo: Embraer

Embraer Executive Jets has delivered the fifth Legacy 450 medium cabin business jet to AirSprint, Inc., a Canadian privately held fractional aircraft ownership company based in Calgary, Alberta. The first Legacy 450 entered AirSprint's fleet in December 2016 and has since been joined by five Legacy 450s, bringing AirSprint's fleet to six Legacy 450s. The purchase agreement for up to 12 Legacy 450s was signed in July 2016. This agreement has an estimated value of US\$198 million at the current list price, if all options are exercised. In December 2016, Embraer and AirSprint flew the Legacy 450 on its maiden voyage to Hawaii, from California, establishing two speed records on the round trip. The National Aeronautic Association (NAA) and the Federation Aeronautique Internationale confirmed each of these flights as a U.S. record and a world record, respectively.

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AIRCRAFT & ENGINE NEWS

Aerospace and defense company AerFin goes from strength to strength in the first half of 2018

AerFin has continued to build upon its achievements of 2017, collecting further accolades for its tremendous growth rate as well as continuing to support its expansive global customer base through the provision of its aftermarket supply-chain solutions.

Service Agreements

On the services side of the business, British Airways' subsidiary, BA CityFlyer joined AerFin's BeyondPool™ component program in February to support its entire fleet of Embraer E-Jets. BeyondPool™ offers a fixed-cost solution to cover all component requirements of Embraer E-Jets and operates out of AerFin's London Gatwick facility. This was followed up by the announcement in June that AerFin had signed a five-year contract to support IKAR Airlines' fleet of seven Embraer E-Jets via its BeyondPool™ support program. IKAR joins BA Cityflyer, which utilizes the program for its fleet of 20 Embraer E-Jets.

Elsewhere, AerFin signed a three-year TrueChoice™ Material Service Agreement with GE Aviation in April, further enhancing its relationship with the aircraft engine OEM. The agreement is for serviceable OEM parts and advanced repair and technology upgrades for the CFM56, CF34 and engines (widely used in commercial and some military aircraft.)

Acquisitions

On the acquisitions side of the business, the firm signed agreements on a selection of assets, particularly in the narrow-body market, including six Airbus A320 family airframes and several CFM56-5B, CFM56-7B and V2500 engines.

In June, AerFin took delivery of its 10th Embraer E170 from Saudi Arabian Airlines. The delivery forms part of the fleet of 15 Embraer E170-LR aircraft acquired in 2017 Q2, which also included spare parts, engines, tooling and equipment required to support the entire fleet.

The acquisition of the 15 aircraft from Saudi Arabian Airlines was a significant moment in AerFin's history, as it was not only the first major global fleet phase-out of the E-Jet product type, but it also pioneered an entire new aftermarket for the E-Jet, allowing AerFin to provide cost-saving solutions that were not previously available to operators.

Sales and Leasing

AerFin completed the outright sale of Airbus A340-300, MSN 208 to European Aviation Air Charter, also in June. The aircraft was part of the original fleet of 11 A340-300 aircraft that AerFin acquired from Hong Kong airline, Cathay Pacific in 2014.

In addition, AerFin leased four and sold 20 en-

Hiratagakuen strengthens Japan's aeromedical operations with Airbus fleet



Kansai-based helicopter operator Hiaratagakuen welcomes its second H145

Photo: Airbus

Kansai-based helicopter operator Hiaratagakuen has welcomed its second H145//BK117D-2, following the milestone delivery of its first unit in December 2017. Currently operating 14 H135s and one H145//BK117D-2, this new H145//BK117D-2 will join Hiratagakuen's growing fleet to support emergency medical service (EMS) missions and serves as a passenger and material transport. The first H145//BK117D-2 already entered service in June 2018 for aeromedical operations at the Nagasaki Medical Centre in Nagasaki Prefecture. With Japan's full-scale deployment of air ambulances in 2001, EMS helicopters, otherwise known as 'Doctor Helicopters', have taken on more prominent roles in the country, enabling rapid evacuation of casualties from affected sites and providing critical care without delay aboard medically equipped helicopters while in transit to a medical facility. In 2010, the Kansai government implemented a region-wide EMS support network and Hiratagakuen became its main operator of these life-saving missions. Today, there are over 50 helicopters supporting emergency medical missions in 42 prefectures across Japan.

Bombardier to offer future-ready flight deck upgrade on Learjet 75 and Learjet 70 aircraft



Learjet 75 aircraft

Photo: Bombardier

Bombardier Business Aircraft and Garmin have announced a significant avionics upgrade for the Bombardier Vision flight deck aboard the Learjet 75 and Learjet 70 aircraft, which are already equipped with one of the category's most generous and advanced cockpits, powered by the Garmin G5000 avionics suite. The upgrade, currently in flight testing, will enhance the aircraft's capabilities for customers to access the most favorable routes as well as pave the way for future technological enhancements. The updated avionics suite will be offered on new Learjet 75 and Learjet 70 business jets with a retrofit on in-service models made available concurrently. The update to the popular Garmin G5000 avionics suite on the Bombardier Vision flight deck will bring workload reducing improvements, including climb, cruise and descent vertical navigation, enhanced take-off and landing performance calculations and much more. In addition, FANS 1/A+, which will enable customers to access the most efficient and favorable routes, will be offered as an option. It will ensure readiness for modernized airspace requirements and deliver efficiency gains that are expected to lower direct operating costs.

AIRCRAFT & ENGINE NEWS

gines, including the V2527-A5, CF34-8E and CFM56-5C in the first half of 2018. The engine leases and sales add to the strength and breadth of service solutions that AerFin brings to the market, not only in the sale of whole aircraft, but across other components as well.

Werner Aero Services acquires another Embraer E-190

Werner Aero Services has acquired an Embraer E-190, MSN217, the second E-190 acquisition in the past few weeks. The aircraft will be used to meet the high demand Werner Aero Services is experiencing for its Embraer supply and asset management programs. The addition of the second E-190 puts Werner Aero Services on the path to becoming one of the largest independent Embraer suppliers.

MRO & PRODUCTION NEWS

Eastern Airlines selects Jetaire for FAR 25.981 compliance solution

Jetaire has delivered six Invicta kits to Eastern Airlines. The first installation took place in December 2017, with the sixth aircraft completed in late spring. Eastern Airlines is a 121 air carrier that operates passenger services to multiple destinations worldwide. The company has a fleet of nine Boeing 767 aircraft. Jetaire's Invicta system is a center tank flammability reduction and ignition mitigation method solution, currently FAA-certified for B737, 737NG, B757 and B767 aircraft as well as the Airbus A320 family of aircraft. The system meets FAA requirements for 14CFR 25.981 and 121.117 compliance. Jetaire received a patent on the system in December 2017.

BAE Systems gains EASA certification for ADS-B (out) modification for BAe 146/Avro RJ

BAE Systems Regional Aircraft has completed the engineering and installation of an ADS-B (Out) modification on two Avro RJ aircraft belonging to two separate operators, leading to the awarding of European Aviation Safety Agency (EASA) Approval Certificate 10066079 for this major change modification. On the back of this approval, CityJet of Ireland, Europe's biggest Avro RJ operator, has placed an order with BAE Systems for modification kits covering its 13-strong fleet. Automatic

JETcopter to test innovative propulsion system and to build next-generation copter



Photo: ©JETcopter

JETcopter, a VTOL aviation startup, has announced the launch of tests of a new-type propulsion system for VTOL aircraft. This new propulsion system consists of two centrifugal air turbines in enclosed housings, each 200 cm (6.6 feet) in diameter, that will rotate in opposite directions at a high RPM to create thrust similar to 11 meters (36 feet) diameter helicopter rotors. The airflow from the turbines will be diverted by air ducts to four endpoints that could be vectored in any direction. This layout will enable the enclosed rotors' housing area to create a lifting force and unload rotors in horizontal flights like airplane wings. The compact enclosed rotors propulsion system will be safer in urban areas than helicopters, and the achieved bigger airflow speed could improve performances of next-generation VTOL aircraft. JETcopter will start tests on a mobile platform shortly to measure generated airflow parameters, like speed, volume and sound at various RPM, and to test airflow vectoring possibilities. Aircraft with this propulsion system could open a new class of VTOL aircraft, 'Copterplanes'; efficient VTOL aircraft that could be used as air taxis for intra- or inter-city routes, or as corporate or private high-speed, safe and efficient next-generation copters. This new and more effective propulsion system with automatic leveling control, instead of manual mechanical control, could make piloting VTOL aircraft easier and simpler compared to helicopters, and would require only an airplane pilot license. JETcopter plans to build a conceptual VTOL prototype within 24 months. The company has also developed a low-cost carbon fiber fuselage production for the JETcopter and will use reliable, powerful and inexpensive automotive motors. The JETcopter is a unique and feasible project, where all three main VTOL aircraft components are ready to install without a major investment to initial engineering. With two motors, each 400 hp, and 1000 kg empty weight, the JETcopter has a high power/weight ratio, 6-8 seats, VTOL-capacities, and powered by automotive motors and very low operational costs.

Dependent Surveillance-Broadcast (ADS-B) is a surveillance technology in which an aircraft determines its position via satellite navigation and periodically broadcasts it, enabling it to be tracked without the need for any action from the pilot or from air traffic control, providing an enhanced set of aircraft surveillance data to air traffic management. EASA has mandated that all aircraft weighing above 5,700kg, or having a maximum cruise speed greater than 250 knots, will need to

be ADS-B compliant by June 7, 2020. In the United States the Federal Aviation Agency (FAA) has mandated ADS-B for January 1, 2020. Following the EASA award, BAE Systems is now working to ensure all European operators of the BAe 146/Avro RJ, as well as those operators outside Europe that fly into European airspace, are equipped with the ADS-B modification by the mandated date. It is also investigating the possibility of obtaining Federal Aviation Administration (FAA) and Trans-

MRO & PRODUCTION NEWS

port Canada Civil Aviation (TCCA) validation of the modification for operators of the aircraft in those countries/jurisdictions. In addition, under its EASA Part 21G and J approvals, BAE Systems is also able to engineer and arrange the installation of ADS-B upgrades to other aircraft types and is currently evaluating solutions for other aircraft platforms.

Joramco obtains EASA Part 145 approval for Boeing 787 aircraft

Dubai Aerospace Enterprise (DAE) has released that its Jordan-based engineering division Joramco has successfully obtained EASA Part 145 approval for the Boeing 787 aircraft type. The approval comes after Joramco obtained similar approval for this type from the Jordanian Civil Aviation Authority (JCARC) and the Federal Aviation Administration (FAA) in April of this year.

HAECO becomes Astronic CSC's exclusive component services provider for IFE products in Asia Pacific

Hong Kong Aircraft Engineering Company (HAECO Group) has entered into a long-term agreement with Astronics Connectivity Systems and Certification (Astronics CSC), a wholly owned subsidiary of Astronics Corporation. Under the agreement, the two companies will establish a service centre in Xiamen, China to provide Astronics and its airline customers with Line Replaceable Unit (LRU) services in China and Asia Pacific. In accordance with the agreement, HAECO Group subsidiary HAECO Component Overhaul (Xiamen) will establish a fulfilment centre providing specialized engineering and component services, including testing, maintenance and repair for Astronics CSC's Summit™ LRUs. As an authorized repair centre for a wide range of component OEMs, HAECO Component Overhaul (Xiamen) has a proven track record of serving the component repair needs of airlines in the region.

ST Engineering's Aerospace sector signs add-on engine maintenance agreement with Jet Airways



ST Engineering's engine maintenance shop

Photo: ST Engineering

Singapore Technologies Engineering (ST Engineering) has announced that its Aerospace sector has signed an agreement to provide CFM56-7B engine maintenance, repair and overhaul (MRO) services for Boeing 737NGs belonging to Jet Airways and its subsidiary, JetLite. This agreement is an add-on to an earlier contract announced on June 18, 2015 which initially covers only a portion of the airlines' 737NG fleet. With the latest agreement, Jet Airways' and JetLite's entire fleet of 80 737NGs will be covered, upping the contract value from the initial US\$350m (approximately S\$478m) to a total of about US\$700m (approximately S\$957m). As part of the contract, ST Engineering will provide an integrated suite of engine MRO solutions, including off-wing engine maintenance support, on-wing services, as well as technical support. These services will be provided over a period of six years, starting from 2019, at ST Engineering's engine MRO facilities located in Singapore and Xiamen, China.

Joramco signs agreement with flyadeal

Joramco, the Dubai Aerospace Enterprise (DAE) engineering division, has successfully performed maintenance on one of flyadeal's A320s, the Saudi low-cost carrier. The layover took place during last month for a 20-day duration. Saudia, the flag carrier of Saudi Arabia, announced the creation of flyadeal on April 17, 2016. The venture is part of Sau-

dia Group's SV2020 Transformation Strategy, which aims to elevate the group's units into world-class organizations by 2020. flyadeal will cater to domestic travelers, Hajj and Umrah pilgrims, and the rising number of tourists to Saudi Arabia, among other groups. The airline launched flights on September 23, 2017, linking Jeddah to Riyadh.

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FINANCIAL NEWS

Safran raises full-year 2018 outlook significantly

Safran has reported that for the first half of 2018 (H1 2018), adjusted revenue was €9.506 billion, an increase of 23.9% on a reported basis, including a four-month contribution of €1.516 billion from Zodiac Aerospace and €445 million of currency impacts. On an organic basis, adjusted revenue grew 10.1%. Adjusted recurring operating income was €1.386 billion (14.6% of revenue), an increase of 32.6% on a reported basis compared to €1.045 billion (13.6% of sales) in the first half of 2017 (H1 2017). H1 2018 recurring operating income included a four-month contribution from Zodiac Aerospace amounting to €129 million. Excluding Zodiac Aerospace, adjusted recurring operating income grew 20.3%. Adjusted net income – Group share was €932 million (basic adjusted EPS of €2.17 and diluted adjusted EPS of €2.11). In H1 2017, adjusted net income – Group share amounted to €1.488 billion comprising €716 million of net income from continuing operations and €772 million of net income from discontinued operations. Free cash flow generation amounted to €820 million (including €25 million from Zodiac Aerospace), representing an increase of 23% compared with €666 million in the year-ago period. The growth was driven by higher cash from operating activities and lower capital expenditures, partially offset by an increase in working capital. At constant scope, H1 2018 free cash flow amounted to 63% of adjusted recurring operating income. Net debt position was €3.533 billion as of June 30, 2018, including the acquisition of Zodiac Aerospace.

Safran (excluding Zodiac Aerospace) raises its

Belgium’s VLM Airlines enters liquidation



Photo: AirTeamImages

SHS Aviation B.V., the majority shareholder of the N.V. SHS Antwerp Aviation (VLM), has decided at an extraordinary general assembly to dissolve the Belgian airline and to liquidate it. Earlier this month it was announced that VLM would discontinue the connections to Aberdeen, Birmingham, Cologne-Bonn, Maribor, Munich and Rostock and that VLM would henceforth focus on business charter flights and the Antwerp-London City Airport and Antwerp-Zurich routes. Also, the scheduled flights from Antwerp to London City and Zurich are now cancelled. The settlement takes effect immediately. Youri Steverlynck and Birgitta Van Itterbeek (Monard Law) were appointed as liquidators. They are responsible for contact with potential buyers.



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FINANCIAL NEWS

outlook for 2018 as the strong momentum for Propulsion, Aircraft Equipment and Defense seen in H1 2018 should continue into H2 2018.

As a result, compared to 2017 figures restated for IFRS 15, Safran expects:

Adjusted revenue to grow on an organic basis in the range 7% to 9%. At an estimated average spot rate of US\$1.21 to the euro in 2018, adjusted revenue is expected to grow in the mid-single digits. Adjusted recurring operating income to grow around 20% at a hedged rate of US\$1.18 to the euro. Free cash flow to be comfortably above 50% of adjusted recurring operating income, an element of uncertainty being the rhythm of payments by state-clients. (€1.00 = US\$1.16 at time of publication.)

MILITARY AND DEFENCE

GKN Aerospace wins contract from ArianeGroup for ground-breaking additively manufactured rocket engine turbines

GKN Aerospace will develop and manufacture two full scale turbines for the Prometheus low-cost re-usable rocket engine demonstrator on liquid oxygen and methane propellants. The turbines will generate power for the methane fuel system, with the first turbine to be delivered at the end of 2019. Manufacturing will take place in cooperation with partners and at GKN Aerospace's highly automated engine systems center of excellence in Trollhättan, Sweden. The new state-of-the-art turbine with all its challenging loads - including very high pressure, high speed and high temperatures - incorporates the latest additive manufacturing (AM) technologies with higher performance, lower lead

U.S. Navy awards Boeing US\$805 million MQ-25 contract



Boeing's MQ-25 unmanned aerial refueler, known as T1, is currently being tested at Boeing's St. Louis site *Photo: Boeing*

Boeing will build the U.S. Navy's first operational carrier-based unmanned aircraft, the MQ-25 aerial refueler, through an US\$805 million contract awarded on August 30. Boeing was awarded the engineering and manufacturing development contract to provide four aircraft. Boeing plans to perform the MQ-25 work in St. Louis. The MQ-25 is designed to provide the U.S. Navy with a much-needed refueling capability. According to the U.S. Navy, the MQ-25 Stingray will allow for better use of combat strike fighters by extending the range of deployed Boeing F/A-18 Super Hornet, Boeing EA-18G Growler, and Lockheed Martin F-35C aircraft. The MQ-25 will also seamlessly integrate with a carrier's catapult and launch, and recovery systems. Boeing has been providing carrier aircraft to the U.S. Navy for more than 90 years.

times and significant cost reduction. This innovative development will support the next step in AM: the use of this technology for future higher loaded critical components in terms of pressure, temperature and rotational speed. GKN Aerospace's space business unit, in Trollhättan, Sweden, has been active in the Ariane programme from its inception in 1974 until the current Ariane 6 partner-

ship, and has made over 1,000 combustion chambers and nozzles as well as over 250 turbines for the Ariane rocket to date. Today it is the European center of excellence for turbines and metallic nozzles, having contributed to the program at every stage from initial research and development through cooperation with academia to the serial production. Prometheus is an ESA-funded program for a



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MILITARY AND DEFENCE

low-cost re-usable rocket engine demonstrator on methane propellant, with ArianeGroup as the prime contractor.

Boeing KC-46 Tanker program completes FAA certification

The U.S. Federal Aviation Administration (FAA) has granted Boeing's KC-46 tanker program a Supplemental Type Certificate (STC), verifying that its refueling and mission avionics systems meet FAA requirements. The milestone marks completion of KC-46 FAA certification. To receive its STC, Boeing's team completed a series of lab, ground and flight tests, which commenced in 2015. As part of the required flight testing, the team validated the KC-46's boom and drogue aerial refueling systems met FAA certification criteria. The STC is one of two required FAA airworthiness certifications. Boeing received an Amended Type Certificate for its core 767-2C aircraft configuration in December 2017. While those certifications cover most of the jet, not all military functions and equipment can be certified by the FAA. The U.S. Air Force also must grant a Military Type Certificate (MTC), which is expected in the coming months. Boeing's team concluded MTC flight testing, which included the jet's aerial refueling, defensive and other military-specific systems, in early July. Six aircraft have supported various segments of STC and MTC testing. Overall, they have completed 3,500 flight hours and offloaded more than three million pounds of fuel during refueling flights with F-16, F/A-18, AV-8B, C-17, A-10, KC-10, KC-135 and KC-46 aircraft. The KC-46, derived

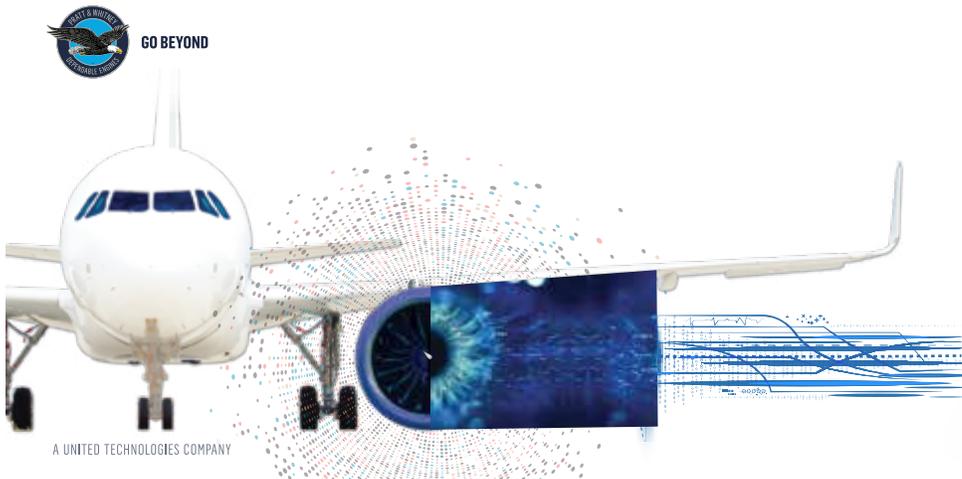
from Boeing's commercial 767 airframe, is built in the company's Everett, Wash., facility. Boeing is currently on contract for the first 34 of an expected 179 tankers for the U.S. Air Force.

OTHER NEWS

Spatial, a provider of cabin crew training simulators, has announced that **Aircalin** has selected it to manufacture a Cabin Emergency Evacuation Trainer (CEET) and Cabin Service Trainer (CST). The hybrid A320 / A330 CEET will enable Aircalin's cabin crew to be comprehensively trained in all safety and emergency procedures (SEPs) for both aircraft types including door and exit operation, evacuation procedures and fire and smoke training. Custom-designed to provide a hyper-realistic training environment, the simulator will include a sound simulation system, window visuals and dual land training slide – all controlled by an easy-to-use, intuitively designed Instructors Operator Station (IOS). Manufactured to meet Aircalin's exact crew service training requirements, the A330 CST will ensure that trainees fully understand the passenger cabin layout and cabin systems of this aircraft type by familiarizing them with cabin lighting, call lights, communications system, galley, lavatories and business and economy class seating. The highly realistic training environment will ensure Aircalin's crew are effectively trained to deliver the highest levels of on-board service and cabin management. Once completed, the two simulators will be shipped and installed at Aircalin's crew training facility in New Caledonia.

Japan Airlines (JAL) and **Garuda Indonesia** have signed a strategic partnership agreement, which will greatly benefit the customers of both airlines by providing more travel options between the two countries. Through this initial agreement, effective October 28, 2018, the two airlines will start offering code-share flights on select routes between Japan and Indonesia, and on domestic flights operated by Garuda Indonesia and Japan Airlines, respectively. Garuda Indonesia will also offer codeshare flights on select transpacific routes operated by Japan Airlines. In addition to the codeshare cooperation, in which JAL and Garuda Indonesia aim to expand the applicable routes in the near future, the carriers will look to develop the partnership in various areas, including the enhancement of their frequent flyer programs and ultimately pursue a joint business structure in their respective market.

Etihad Cargo, the cargo and logistics arm of **Etihad Airways**, and **Trinity Logistics USA** have renewed their partnership that will see the airline continuing to operate three weekly Boeing 777 Freighter services into Rickenbacker International Airport (LCK) in Columbus, Ohio, on behalf of the New York-based global logistics provider in a multi-year agreement. Originally signed in June 2016, the extended partnership allows Trinity to continue to serve the high-fashion industry for which it is most renowned, forwarding apparel from Colombo (Sri Lanka) and Hanoi (Vietnam), two of the world's largest garment exporters, to Columbus Ohio in the United States. In addition to these three weekly services, the partnership was further expanded to introduce an onward Etihad Cargo freighter connection between Rickenbacker Airport and East Midlands Air-



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OTHER NEWS

port (EMA), in the United Kingdom.

Alaska Airlines will begin a nonstop, daily service between Seattle and Pittsburgh. This new service is currently the only nonstop flight offered from Seattle-Tacoma International Airport to Pittsburgh International Airport (PIT). The new route effectively links Seattle to the thriving business community in Pittsburgh, which continues to grow as top technology companies, entrepreneurs and start-ups look to establish a presence in the city. “The arrival of Alaska Airlines with year-round daily service to Seattle is a major win for Western Pennsylvania,” said Christina Cassotis, CEO of the Allegheny County Airport Authority. “This carrier is the right fit for our market given the close economic ties we have with the West Coast. We’re excited to offer more options for our passengers who have been asking for this service.”

Rockwell Collins has been selected by **Coptersafety** to provide three turnkey integrated Level D helicopter dome-based complete visual systems. The systems include multiple EP-8100® image generators, 4K ultra-high resolution, liquid crystal over silicon (LCoS) laser-illuminated projectors, a 240 degree by 80 degree motion-compatible dome display, night vision goggle capability and additional channels for camera systems, vertical reference window, cargo mirrors and an Enhanced Vision System (EVS). Deliveries are currently underway to its training facility in Helsinki, Finland, and two of the systems have already been certified by the Finnish Transport Safety Agency. Coptersafety, founded four years ago by a helicopter pilot wanting to improve the safety of helicopter aviation, is a European facility focused on commercial rotary-wing training

ARGUS International (ARGUS) has launched its Second in Command (SIC) Gateway Program. The program’s goal is to recognize valuable safety related experience beyond hours in the air, and to qualify pilots with quality experience to meet and/or exceed the ARGUS TripCHEQ SIC minimums. “ARGUS recognizes more than flight hours determine the competency and qualification of a pilot,” said Joe Moeggenberg, President and CEO of ARGUS International, Inc., adding: “The Second in Command Gateway Program highlights competency-based training, and through our three Gateways we are able to acknowledge other forms of quality training within the industry.” Pilots may meet/and or exceed SIC ARGUS TRIPCHEQ minimums through a mix of



HAITE and MAB Academy sign MOU

Photo: HAITE Group

HAITE Aviation Training (HAITE), a wholly-owned subsidiary of **Sichuan Haite High-Tech Co. of Chengdu, China (HAITE Group)**, and **Malaysian Airlines Berhad (MAB) Academy**, a subsidiary of the **Malaysian Aviation Group (MAG)**, have come together to collaborate on the provision of joint commercial flight crew training services in Malaysia. A holistic aviation education institution that provides all aspects of airlines operations and management training, MAB Academy is endorsed by the Civil Aviation Authority of Malaysia (CAAM), and is a strategic regional training partner with the International Air Transport Association (IATA). The two parties signed a Memorandum of Understanding (MOU) on August 29, 2018 at the HAITE Singapore Aviation Training Center located in Changi Business Park. HAITE and MAB Academy will work together to develop and implement turnkey pilot training solutions to various airlines in the Asia Pacific region. The companies will also explore the setting up of a joint venture to provide high-fidelity simulator training for commercial pilots. In addition, both parties will work towards conducting a Multi-crew Pilot License (MPL) program, and jointly explore the provision of cabin crew training equipment to MAB Academy’s new facilities.

real-world experience, quality training experience, simulator training programs and/or operator training. The program’s criteria ensure progressive safety standards through one of three ARGUS SIC Gateways, all which focus on core competencies. The three approved ARGUS SIC Gateways are: Military, Aeronautical University, and Ab Initio. These gateways provide pilots with an efficient, streamlined and accelerated path to meet ARGUS TripCHEQ SIC minimums. The ARGUS SIC Gateway Program brings advanced safety curriculum highlighting real-world training, universally recognized criteria created by ARGUS International, a focus on competency/evidence-based training, and an emphasis on quality flight time and how that time is accumulated. GATEWAY APPROVED ARGUS SIC TRIPCHEQ minimums

are as follows: enhanced, competency-based training with a minimum of 500 total flight hours – 250 of those flight hours as Pilot in Command.

The current **Brazilian government** has confirmed that it will give the go-ahead to the **Boeing – Embraer** tie-up, but only after the forthcoming Presidential election in October, according to the country’s Defense Minister Joaquim Silva. The reason for the delay is to avoid stirring up debate amongst the presidential candidates. Former president Lula da Silva has been a strong protester against the deal, declaring that he would use the government’s power of veto to block the deal. While it is unlikely he will be able to run as a

PASSENGER STATISTICS - AUGUST

- **Ryanair** has released that August total traffic (including Laudamotion traffic) grew 9% to 13.8 million compared to August 2017, with a 97% load factor. Ryanair traffic grew 5% to 13.3 million customers with a 97% load factor, while Laudamotion traffic was 0.5 million customers with a 92% load factor. ATC staff shortages and pilot strikes (10 Aug) caused almost 550 flight cancellations in August compared to just 27 cancellations in August 2017.
- **Norwegian** has reported strong passenger growth as it carried more than 3.6 million passengers in August. The total traffic growth increased by 31% this month, driven by a 33% capacity growth. The load factor was 89.6%, down 1.5 points on the entire route network, and 94% on Norwegian's long-haul routes, which are operated by 787 Dreamliner aircraft.
- **Delta Air Lines** has reported operating performance for August 2018. The company carried 18.3 million customers across its broad global network, a record for the month of August. System traffic for August was up 3.6% while capacity improved 3.5% compared to August 2017. System load factor was up 0.1 point to 88% when compared to the previous year.
- In August, **Finnair** carried 1,205,300 passengers, 11.5% more than in the corresponding period of 2017. The number of passengers grew in Asian traffic 13.4%, European traffic 12.2%, North America traffic 11.8% and domestic traffic 5.0%. Finnair's overall capacity increased in August by 15.3% year-on-year and traffic grew by 13.0%. The load factor decreased year-on-year by 1.7 points to 84.1%.

OTHER NEWS

candidate in the October election, there is a strong possibility that his running mate may be lifted into the second round of voting on October 28. It was announced in July that Boeing was going to take an 80% stake in the commercial jets section of Embraer, investing US\$3.8 billion in the US\$4.75 billion joint venture. Embraer's defense and business jet operations are not being included in the deal. The move by Boeing had been on the table for some time but was given greater priority after the Airbus – Bombardier deal over the then Bombardier CSeries of jets, putting that duopoly in the driving seat where the 70-130-seat segment of the market was concerned. With the Boeing – Embraer tie up, analysts see these two mergers as the biggest realignment in the global aerospace industry for decades. With Boeing and Embraer may be on one side, Airbus and Bombardier on the other, these moves have strengthened Western plane manufacturers against new entrants to the market, such as China.

Passenger air and freight traffic in Germany produces reasonable figures, but criticism of German air traffic is steadily increasing. Since mid-June, capacity bottlenecks have caused noticeable flight cancellations, delays and many dissatisfied customers. "Now all players in the industry as well as authorities and politics have to work on joint solutions," stated **BARIG** Secretary General Michael Hoppe last week at the general meeting of the association, which represents over 100 German and international member airlines. Passenger security controls, their efficiency, infrastructure bottlenecks at some German airports, as well as strikes and delays in air traffic led



Eros Tavani (l), Torsten Tamm (r)

Photo: AviTrader CS

Zurich-based aviation consulting firm **Amros-Global GmbH** and Munich-based **AviTrader CS GmbH** announced the formation of a new cooperation to increase the portfolio of aviation consulting services. The new venture consolidates the extensive consulting expertise of both companies. Amros-Global and AviTrader CS offers a one-shop-stop portfolio of aviation consulting services for airlines, MRO providers and aircraft leasing companies. The services focus on all commercial and technical aspects around aircraft and maintenance. Eros Tavani, Managing Director of Amros-Global stated, "We are very pleased about this cooperation with AviTrader CS. Both companies complement each other fundamentally. We now jointly offer a wide range of technical and commercial consulting services." "The synergies between both companies will help customers streamlining the sourcing of their adviser and consultant requirements. We see us as the partner for our customers, adding resources, expertise, project management skills and interim management solutions", said Torsten Tamm, Managing Director AviTrader CS. AviTrader CS's consulting roots go back to the year 2003. Today, all consulting activities of **Tamm, Bresler & Associates Inc.** and **TBA Consulting Services GmbH** have been consolidated under the brand **AviTrader**. **Amros-Global** has been founded in 2010 by former senior managers of **Swissair** and serves airlines and MROs around the globe.

OTHER NEWS

to engaged discussions among the BARIG airlines operating to and from Germany. Michael Hoppe, Robert Schickling, Managing Director Operations/COO of Deutsche Flugsicherung GmbH, and other representatives of the German aviation industry explained the background and discussed possible measures to counter the deficits. Concluding, the auditorium agreed that joint action has to be intensified for more efficient passenger security processes, border and customs controls, modernization and expansion of infrastructure and more capacity in airspace. Currently, the number of flights at some airports should not be increased further in order to maintain high quality and punctuality in German airspace and versus international competition. With these demands and the willingness to cooperate in finding efficient solutions, the airline members of BARIG are on a par with other players in the aviation industry.

INDUSTRY PEOPLE



Jeffrey Martin

to **Ed Sims**, Martin will oversee more than 11,000 WestJetters in WestJet's Flight Operations (including the Operational Control Centre), Guest Experience (Contact Centre and Inflight), Airports, Technical (Maintenance) Operations, Continuous Improvement, and the business strategy and execution of WestJet Encore. Martin comes from JetBlue, where he most recently served as Executive Vice-President of Operations, responsible for Technical Operations, System Operations, Safety,

- WestJet has appointed **Captain Jeffrey Martin** to the position of Chief Operating Officer. Martin will join WestJet on September 24, 2018, subject to Canadian immigration approval. Reporting

Security, Flight Operations, Training and Regulatory Compliance for the sixth-largest airline in the U.S.



Igor Zahradníček

- Czech Airlines Technics (CSAT), a daughter company of the Czech Aeroholding Group which provides aircraft repair and maintenance services, has appointed a new Vice-Chairman of the Board of Directors. Effective September 3, 2018, Mr. **Igor Zahradníček** will be in charge of finance, development, procurement and logistics at the company. "Czech Airlines Technics is a company with a long tradition where unique high-level expertise goes without saying and quality and safety are not subject to discussion, but a must. Becoming a part of such a company's further growth and this team is a challenge for me as a manager and

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INDUSTRY PEOPLE

I therefore look forward to working at CSAT," Igor Zahradníček, the new Vice-Chairman of the Czech Airlines Technics Board of Directors, said. For the last nine years, Igor Zahradníček worked as the CEO of TOUAX s.r.o., a producer and designer of modular buildings. In the 1990s, he held several management positions at PepsiCo and later was also in charge of DHL Logistics and Maersk Logistics in the Czech Republic.



Klaus Marx

- **Klaus Marx**, Regional Station Manager Germany at Air France/KLM and **Arne Kirchhoff**, Group Director Commercial Airport Relations at Thomas Cook Group Airlines, are the new co-chairmen of the BARIG Charges Committee. Both managers are recognized airport and procurement experts with extensive international experience. Marx has been working for Air France since 1988 and has further held management positions at Air France/KLM since 1997. Kirchhoff held several leading positions at Lufthansa before taking over the Commercial Airport Relations sector at Condor in 2011. Since 2013, he is overseeing this subject for the entire Thomas Cook Group Airlines, which Condor is a part of. The BARIG Charges Committee consists of around 20 BARIG members who represent the association's airline community of over 100 member airlines. Since the committee features continental, intercontinental, cargo and charter airlines, the diverse demands of all members are all represented towards airports, aviation authorities and on a state as well as on a federal level.



Arne Kirchhoff

- Nordea Bank's Topi Manner is to succeed **Pekka Vauramo** as chief executive of state-controlled Finnair. Vauramo, who is credited with returning the airline to profit growth will leave in November to join engineering firm Metso. Manner has been with Nordea Bank, the Nordic region's largest bank, for over 20 years,

Recommended Events



Engine Leasing Seminar
September 18, 2018 – Copthorne Tara Hotel, Kensington, London, UK

Transactional Support & Risk Management Seminar, London
September 19, 2018 – Copthorne Tara Hotel, Kensington, London, UK

MRO Europe
October 16 - 18, 2018 – Amsterdam

Aircraft Economic Life Summit 2018
November 20, 2018 – Gibson Hotel, Dublin, Ireland

[Click here for more aviation events](#)

holding a variety of positions.

- **Jon Sharp** will retire at the end of this year from his long-serving position as Engine Lease Finance's President and CEO. Sharp founded the Company in 1989, pioneering the spare engine operating lease industry. After 28 years of continuous evolution and growth, the Company now offers the complete range of engine leasing services from long-term operating leases through to short term AOG support and the provision of engine parts through its investment in INAV, the Chicago-based parts provider. ELF owns and manages some 300 engines valued at over US\$2.7bn with a current customer base of over 80 customers in 43 countries. ELF's Chief Operating Officer, **Tom Barrett**, will succeed Sharp as President and CEO. Barrett, who qualified as a chartered accountant with KPMG in 1989, has been with ELF since 1990 and in that time has worked closely alongside Sharp in developing the company to its current position of market pre-eminence. In addition to this appointment, ELF's Chief Commercial Officer, **Joe O'Brien**, will become Deputy CEO, supplementary to his current role as CCO; O'Brien has had 22 years involvement with ELF. Jon Sharp will continue as a part-time consultant to ELF after his retirement and will continue to share his industry experience by writing press articles and by speaking at conferences.



AviTrader Publications Corp.
Suite 305, South Tower
5811 Cooney Road
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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:
editor@avitrader.com

THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	V2522-A5	1604	2001	Q1/2019	Sale	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-100	ORIX Aviation	V2522-A5	1445	2001	Q4/2019	Sale	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-100	Fortress Investment Group	V2500-A5	2568		Q4/2018	Lease	Jeff Lewis	jlewis@fortress.com	+1 (305) 833-0309
A320-200	Castlelake	V2527-A5	2161	2003	Q1/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Fortress Investment Group	V2500-A5	1856		Q4/2018	Lease	Jeff Lewis	jlewis@fortress.com	+1 (305) 833-0309
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-700QC	Fortress Investment Group	CFM56-7	30184		Now	Lease	Jeff Lewis	jlewis@fortress.com	+1 (305) 833-0309
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
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
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR72-500F	Castlelake	PW100-127F	0585	1999	Now	Sale	Michael Hackett	Michael.hackett@castlelake.com	+442071906120
CRJ-200LR	Regional One	CF34-3B1	7369	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-900LR	Regional One	CF34-8C5	15111	2007	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
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	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
Saab 340B+	C&L Aviation Group	CT7-9B	368	1994	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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THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
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				
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-8E5A1	Nov 18 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-10E5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E6	Now - Lease				
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B1F	Now - Lease	TrueAero	Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) CF6-80C2A2	Oct 18 - Sale / Lease	Castelake	Stuart MacGregor	stuart.macgregor@castelake.com	+442071906138
(1) CF6-80C2A2	Dec 18 - Sale / Lease				
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-7B24	Now - Lease	Fortress Investment Group	Tom McFarland	tmcfarland@fortress.com	
(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) CFM56-7B27	Now - Lease				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(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.				



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(1) CFM56-5B3/P	Nov 18 - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B26	Oct 18 - Sale / 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-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GEnx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GEnx-1B74/75/P2	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1A33	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) LEAP-1B28	Now - Lease				
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121	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) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@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) 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				
PW150A RGB	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
PW4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW4056-3	Now - Lease	Fortress Investment Group	Tom McFarland	tmcfarland@fortress.com	

THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
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
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(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	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) (2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(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) GTCP331-500B	Now - Sale/Lease/Exch.				
(1) APS 3200	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(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.arelano@cfmmaterials.com	+1 214-988-6676
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
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	riewsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
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
737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
(3) APS 2300	Now - Sale/Lease/Exch.		Mike Cazaz	mike@werner aero.com	+1 201-661-6804
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