

# AVI TRADER WEEKLY AVIATION HEADLINES

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## WORLD NEWS

### Spring Airlines selects L3 training solutions

L3 Commercial Training Solutions (L3 CTS) announced that it has been selected by Spring Airlines to supply two of its RealitySeven™ A320 Full Flight Simulators (FFS) as well as an Enhanced Flat Panel Trainer (EFPT). The two A320neo devices will be delivered in 2018 and 2019 and will join the three RealitySeven A320 FFS systems already in service at Spring Airlines' training centre in Shanghai, China. The FFS will be manufactured by L3 CTS at its headquarters in Crawley, and the EFPT will be supplied by L3 CTS's Minneapolis operations. This work represents the first joint collaboration as a combined team under L3 Commercial Training Solutions.

### SkyWest orders 25 new aircraft

SkyWest the regional US carrier has reported that it has entered into aircraft purchase agreements and capacity purchase agreements to acquire and fly 15 new aircraft with Delta Air Lines and 10 new aircraft with Alaska Airlines of which five aircraft with Alaska were previously discussed. Expected delivery dates of the 25 aircraft run from March 2018 through the end of 2018. The orders include 15 E175s in 70 seat capacity for Delta and 10 E175s for Alaska with 76 seats.

### airBaltic to operate Geneva, Tampere, Gothenburg year round

airBaltic will continue to fly to Geneva, Tampere, Gothenburg also during the winter as well as re-introduce popular skiing destinations of Salzburg, Verona and Poprad in the High Tatras Mountains. Wolfgang Reuss, Senior Vice President Network Management of airBaltic: "We introduced direct flights to Geneva, Tampere and Gothenburg only this summer, however, the passenger demand for these routes has already been high, making it viable for us to fly to these cities year-round."



The 767s will be kitted with new inflight wifi.

Photo: Alan Lebeda-Wikimedia

## Air Astana connects

### With next generation inflight broadband

Air Astana has become the first airline in the world to offer Inmarsat's GX Aviation to passengers onboard a widebody aircraft, after the service went live onboard the airline's initial Boeing 767. Air Astana selected the next generation inflight broadband solution through Inmarsat partner Rockwell Collins in a deal announced last year.

GX Aviation, the world's first inflight broadband solution with seamless

high-speed global coverage provided through a single operator, has already been installed on the first Air Astana Boeing 767. The service allows passengers to browse the internet, stream videos, check social

media and more, with advanced connectivity on par with broadband on the ground.

The award-winning Kazakh air carrier has installed the Rockwell Collins cabin system, which utilises Inmarsat's Global Xpress (GX) Aviation capabilities to provide in-flight connectivity.

### "Offering GX Aviation on widebody aircraft was our next major milestone ..."

Frederik van Essen, Inmarsat Aviation SVP Strategy and Business Development

Broadband speed connectivity will be available to Business and Economy class passengers on all three of Air Astana's Boeing 767s.

Depending on their individual

needs, Air Astana passengers will be able to choose from three connectivity packages: The Light option will cover 15 Mb, the Business option will cover 50 Mb, and the Super option will cover 100 Mb. All services are estimated to operate at an average speed of 2 to 5 Mbps.

Andrey Gulev, Manager Commercial Engineering at Air Astana commented, "One of our core missions at Air Astana is to be on the cutting-edge of technology and constantly enhance our passengers' experience whether it's on board or on the ground. We proved this in

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2016, when we became one of the first airlines to commit to Inmarsat's Global Xpress high-speed in-flight connectivity system with Rockwell Collins. We're delighted the service is now ready to launch and we are looking forward to hearing what our passengers think of being able to continue sending work emails throughout their flight or chatting to their friends on social media."

GX Aviation will eventually be available on all

three of Air Astana's Boeing 767s, with system installation on its second aircraft planned to be completed in October 2017.

Frederik van Essen, Inmarsat Aviation Senior Vice President of Strategy and Business Development, said: "GX Aviation has already entered commercial service on narrowbody aircraft flights in Europe and the response from both passengers and cabin crew has been outstanding. As the only solution in the market

today that has been specifically designed for inflight broadband, it offers unprecedented speed, reliability and consistency. Offering GX Aviation on widebody aircraft was our next major milestone and we are delighted to have achieved that with Air Astana and our partner Rockwell Collins."

## AIRCRAFT & ENGINE NEWS

### Rolls-Royce sets new aerospace record with UltraFan Power Gearbox

Rolls-Royce has set a new record for the most powerful aerospace gearbox, just months after testing began. Speaking at the International Society for Air Breathing Engines (ISABE) conference in Manchester, UK, Paul Stein, Chief Technology Officer at Rolls-Royce, confirmed that the Power Gearbox had successfully reached 70,000 horsepower while on test at Rolls-Royce's dedicated facility in Dahlewitz, Germany. The Power Gearbox will play a central role in the company's next-generation UltraFan engine, helping to deliver improved efficiency over a wide range of thrusts. Testing of the first demonstrator gearbox began on a specifically designed rig in May and having proven that the Power Gearbox is capable of managing the equivalent power of around 400 family cars at full throttle, testing will now focus on lower power functions such as endurance and reliability. Rolls-Royce's Power Gearbox is designed to run all the way up to 100,000 horsepower and future demonstrators are expected to achieve this level. When running at maximum power, each pair of teeth on the gearbox will transmit more power than an entire grid of Formula 1 cars between them. The Power Gearbox has a planetary design, with each 'planet' capable

### First civil customer Nolas takes delivery of an H135 with Helionix



Nolas takes delivery of one H135 with Helionix

Photo: Airbus Helicopters, Christian Keller

The Norwegian air ambulance operator Norsk Luftambulans AS (NOLAS) is the first civil customer to receive an H135 equipped with Helionix. Six additional H135s with Helionix will be delivered to NOLAS in 2017 and 2018. In December 2016, the UK MoD was the first military customer to receive the new H135 with Helionix. The H135 obtained EASA certification for the Helionix avionics suite in November 2016. The Helionix avionics system designed by Airbus offers operators with increased mission flexibility and safety. Helionix is a family concept with standardized features and is already available on the H175 and H145. On top of the 4-axis autopilot, Helionix offers an innovative cockpit layout which helps to increase situational awareness. Designed with three large electronic displays on the H135, the cockpit is Night Vision Goggle compatible and includes a First Limit Indicator which highlights the appropriate engine instrument data for the pilot in one indicator.

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**AIRCRAFT & ENGINE NEWS**

of holding the force of a Trent XWB engine at full throttle. It is designed to allow the shafts at the core of the engine to run at very high speeds while allowing the fan at the front of the engine to run at a slower speed. The associated improvement in efficiency and reduction in weight will allow the UltraFan engine to offer a 25% fuel efficiency improvement over the first generation of Rolls-Royce Trent engines.

**S7 Airlines orders new Embraer E170 full flight simulator**

S7 Airlines, a oneworld® global airline alliance member, has announced that it has ordered an Embraer E170 full flight simulator by FlightSafety. The simulator will be installed and put into operation in the S7 Training aviation training center at the end of 2018. Full flight simulators (FFS) are designed for pilots to hone their flight skills in conditions as close to a real flight as possible. They are equipped with a cockpit that is an exact copy of that of a real aircraft. The new simulator will be equipped with high-tech visualization and motion control systems, as well as a multi-functional operating station with a user-friendly interface for instructors.

In April 2017, S7 Airlines received the first Embraer 170-LR airliner and became Russia's first operator of this type of aircraft. Designed to transport 78 passengers in a spacious and comfortable economy class cabin, Embraer 170-LR aircraft now service flights from Moscow, Novosibirsk and St. Petersburg.

**TrueNoord purchases two ATR 72-600 aircraft with leases attached from Castlelake**

TrueNoord has purchased two ATR 72-600 aircraft from global private investment firm, Castlelake. This investment continues the highly targeted on-going development and global growth strategy for the TrueNoord fleet under lease, following investment from private equity firms Bregal Freshstream and

**Long-time Airbus customer United Airlines orders A350-900s**



United Airlines orders A350-900 widebody aircraft to replace older, less efficient aircraft Photo: Airbus

United Airlines has increased the number of A350 XWB aircraft it will bring into its fleet, updating and expanding its previously existing order for 35 A350-1000 to 45 A350-900 widebody aircraft to replace older, less-efficient aircraft, supporting future growth at the airline. The A350-900 is the cornerstone member of the A350XWB (Xtra Wide-Body) family, which is shaping the future of air travel. The aircraft typically seats 325 passengers in a standard three-class configuration and features state-of-the-art comfort and amenities, offering an exclusive flight experience to passengers on board with the new Airspace by Airbus cabin. The A350-900's unique combination of payload and true long-range range capabilities makes it an ideal aircraft for United Airlines' international route system. These aircraft will be the first Airbus wide-body aircraft to join United's global fleet. "For the past year, United has done a complete review to ensure that we have the right long-term fleet strategy, and it was clear that the A350 aligns with our replacement needs and our network," said Andrew Levy, Chief Financial Officer of United Airlines. "The combination of the range performance and efficiencies makes the A350 an attractive aircraft for United."

BlackRock. The purchase of the two ATR 72-600 aircraft from Castlelake has recently been completed. One of the aircraft, with MSN 1038, is operated by Regional Jet (a subsidiary of Nordic Aviation Group) in Estonia. The other aircraft, with MSN 1042, is flying with HOP!, part of the Air France-KLM group, in France.

**Boeing raises forecast for new airplane demand in China**

Boeing has projected a demand for 7,240 new airplanes in China over the next 20 years, valued at nearly US\$1.1 trillion. Boeing's annual China Current Market Outlook (CMO) was released on September 6, in Beijing, with



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total airplane demand rising 6.3% over last year's forecast. "China's continuous economic growth, significant investment in infrastructure, growing middle class and evolving airline business models support this long-term outlook," said Randy Tinseth, vice president of Marketing, Boeing Commercial Airplanes. "China's fleet size is expected to grow at a pace well above the world average, and almost 20% of global new airplane demand will be from airlines based in China." Single-aisle airplanes continue to be the foundation of domestic and regional fleets in China. Boeing sees the need for 5,420 new single-aisle airplanes through 2036, accounting for 75% of total new deliveries. Full-service airlines and low-cost carriers have been adding new single-aisle airplanes and expanding new point-to-point services to cater for both leisure and business travel demand in China and throughout Asia. Tinseth said the backlog from Chinese customers demonstrates that the new 737 MAX 8 remains at the heart of the single-aisle market. Boeing forecasts the wide-body fleet over the next 20 years will require 1,670 new airplanes. Airlines continue to shift to small and medium wide-body airplanes for long-haul expansion and flexibility. Primary demand for very large widebodies going forward will be in the freighter market. World-wide, Boeing projects the need for 41,030 new commercial airplanes over the next 20 years, valued at US\$6.1 trillion.

**ANA takes delivery of first A320neo**

Japan's All Nippon Airways (ANA) had taken delivery of its first A321neo, becoming the launch operator of the version of the aircraft powered by Pratt & Whitney PW1100G-JM geared turbofan engines. ANA's A321neo is configured for 194 passengers with 8 premium class seats and 186 economy class seats. ANA will start scheduled commercial services on domestic routes from October. The aircraft is the first for the airline to be used on domestic routes equipped with in-flight entertainment system for all seats. ANA currently operates 16 A320 Family aircraft, with another 29 on order for future delivery. Parent company ANA HOLDINGS (ANA HD) also has three A380s on order.

**DAE Capital delivers three A320 aircraft to new customer VivaColombia**

Dubai Aerospace Enterprise (DAE) has reported that its leasing division, DAE Capital, has completed the delivery of three Airbus

**AviaAM Financial Leasing China hands over 7th Airbus A320 to Aeroflot**



Aeroflot takes delivery of 7th Airbus A320 from AviaAM Financial Leasing China

Photo: AviaAM Leasing

AviaAM Leasing has reported that its joint venture with the Henan Civil Aviation Development and Investment Company (HNCA) – AviaAM Financial Leasing China – has delivered the 7th brand new Airbus A320 family aircraft to Aeroflot – Russian Airlines. The delivery took place at Airbus facilities in Toulouse, France. On September 6, the brand-new Airbus A320-214 (MSN 7806) produced at Airbus facilities in Toulouse was delivered to its new operator Aeroflot – Russian Airlines. The aircraft, powered by two CFM56-5 engines, comes in a configuration of 150 economy- and 8 business-class seats. Aeroflot will operate the Airbus A320 for the next 12 years under the operating lease agreement.

A320-200 CFMI-powered aircraft to new customer, VivaColombia. The three aircraft, bearing serial numbers 3896, 3931 & 3949, were delivered in June and August respectively. VivaColombia is Colombia's first ultra-low-cost carrier and operates both domestic and international routes. The deal is structured to give the airline the flexibility to also operate the aircraft in the fleet of the recently launched sister company Viva Air Peru.

designed by Zodiac Oxygen Systems US (Avox Systems). This will include Passenger Masks, Chemical Oxygen Generators and Piece Parts for Oxygen Cylinders. Zodiac Aerospace is a leader in aerospace equipment and systems for commercial, regional and business aircraft, as well as for helicopters and spacecraft. It develops and manufactures state-of-the-art solutions to improve comfort and wellbeing on board aircraft, and high-technology systems to increase aircraft performance and flight safety.

**MRO & PRODUCTION NEWS**

**Zodiac Aerospace Services appoints Kapco Global | Avio-Diepen distributor for select oxygen products**

Zodiac Aerospace Services has signed an agreement appointing Kapco Global | Avio-Diepen distributor for select oxygen products

**Spirit AeroSystems develops and leverages innovative composite technology**

Spirit AeroSystems has leveraged advanced composite technology from its Research and Development portfolio to introduce new work at the company's U.K. facility. Scotland's First Minister, Nicola Sturgeon, visited Spirit's site in Prestwick, Ayrshire, to share details of the new single-aisle spoiler work

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on the Airbus A320 family programs. “We are pleased to utilize this innovative technology to not only bring improved quality and savings to our customer but also to secure new work for our U.K. facility,” said Scott McLarty, vice president and general manager of Spirit’s U.K. and Malaysia facilities. “This is an opportunity for us to leverage our technology, design, engineering and manufacturing expertise to better support the needs of our customers, and it strengthens our ability to secure future work.”

The Spirit-developed Resin Transfer Molding (RTM) solution supports the high-volume production of spoilers and other monolithic components and promises to deliver improved quality and significant cost savings. Spirit will establish a world-class manufacturing platform involving state-of-the-art automation and robotics to meet its customer’s rate demands, which are currently at over 600 spoilers per month. The Scottish government is providing investment support to secure the project, which will result in an increase in headcount at the facility.

**Boeing Shanghai completes base maintenance and Wi-Fi modification for first Chinese Customer**

Boeing Shanghai Aviation Services and Xiamen Air celebrated the completion of the first 787-8 base maintenance check, also known as a C-check, and Wi-Fi modification at Boeing Shanghai’s hangar at Shanghai Pudong Airport. The relationship with Xiamen Air solidifies Boeing Shanghai’s position in the global market for 787 heavy maintenance and connectivity modifications as it enters China’s market.

**Qantas chooses Airbus to upgrade cabins of A380 fleet**



Qantas chooses Airbus to upgrade its cabins of A380 fleet

Photo: Airbus

Qantas has reached an agreement with Airbus to upgrade its 12 flagship A380 cabins to further improve passenger comfort on long-haul operations, while maximizing economy. In particular, the new interior takes advantage of the A380’s large floor area to efficiently embody Qantas’ latest seat products for Business Class and Premium Economy. Airbus will be responsible for the overall upper-deck integration. In addition, Airbus will develop specific tailored monuments for Qantas and a new and unique business lounge area in the forward upper-deck. The installation phase will start in Q2 2019. All 12 aircraft are planned to be upgraded by around the end of 2020.

**STS Aviation Group purchases state-of-the-art aircraft hangar facility in Florida**

STS Aviation Group has continued its recent expansion by acquiring the assets of AeroMod International to launch a brand-new business known as STS Mod Center. STS Mod Center is fully operational and based out of a 114,500 ft<sup>2</sup>,

state-of-the-art hangar facility in Melbourne, Florida. The company employs a highly skilled team of on-site and mobile aircraft maintenance technicians and engineers that can expertly accommodate all military, commercial and civil aircraft modification requirements. “STS Aviation Group is continuing its high-growth strategy, and with the addition of this



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new hangar facility, we now have the ability to perform a variety of avionics and structural aircraft modification services for airline, leasing companies and OEM customers both at our new Melbourne facility or on-site at their location,” stated PJ Anson, CEO of STS Aviation Group. “We already have certifications in place, and the team is up, running and ready for action.” STS Mod Center has secured the following national and international certifications: FAA 145, EASA 145, ANAC 145, AS 9110B, AS 9100.

**Iberia launches new Vocational Training degree on Aircraft Maintenance together with the Madrid regional government**

Iberia and the Education, Youth and Sport Bureau of the Madrid Regional Government have reached an agreement to develop a Vocational Training degree that will be held, starting in October, at two Secondary Schools in Madrid. A total of 50 students, 25 per school, may enroll each year in the Advanced Vocational Training degree in Aeromechanical Maintenance. The duration of the Iberia Campus Aircraft Maintenance course will be two school years. In the first year, classes will be held in the schools, and in the second year the training will be chiefly held at Iberia’s maintenance facilities in La Muñoz, near the Madrid airport, with 40% of the training to be given in the classroom and the remaining 60% in workshops. Students taking part in this Vocational Training degree, who will earn the qualification of Advanced Technician, may complete their practical training in Iberia’s aircraft maintenance workshops in a third year, during which they may sit for European Air Safety Agency Category B examinations. Successful examinees will be qualified for employment as aircraft maintenance technicians in all European Union member states and throughout the European Economic Space. In the second and third years, the students will be awarded a grant.

**TAM to cargo convert Saab 340B for Alandia Air**

Täby Air Maintenance, TAM, has signed a contract with Alandia Air of Mariehamn, Åland (Finland), for the conversion of one of their Saab 340Bs to cargo configuration. The aircraft – c/n 224 with the registration N9CJ – will be ferried from the United States, due to arrive in TAM’s main overhaul facility at Örebro airport on September 8th. Alandia Air is

specialized in operating leases primarily for SAAB 340s.

**FACC AG signs €500 million Airbus contract**

Fischer Advanced Composite Components (FACC), the Austria-based aerospace company has signed a €500 million (US\$600 million) contract with Airbus for its new “Airspace” cabin in the A320 family. FACC will provide the overhead stowage compartments and ceiling panels, continuing the 15-year relationship it has had with the plane manufacturer for the supply of interior fittings. The contract provides for a supply volume of more than €500 million. Working closely with Airbus, FACC is currently working on the detail development of the individual components. According to the contract, the first deliveries for the “Airspace” cabin will be supplied to Airbus in late 2018. From the beginning of 2019 onward, Airbus will offer the new “Airspace XL Bins”, for the A320 aircraft to the airlines as an alternative interior to the current versions, which are also manufactured by FACC.

FINANCIAL NEWS

**AirAsia remains confident despite 60% drop in Q2 net profit**

Earlier this week shares in AirAsia fell by 1% on the release of disappointing Q2 net returns, with a 60% drop in net profit compared to Q2 2016. This result was mainly due to higher operating costs, predominantly 60% higher staff costs and 82% higher aircraft fuel expenses.

Despite this result, the Kuala Lumpur-based Malaysian low-cost carrier remains confident, with revenue over the April-to-June period increasing 47% year-on-year to MYR2.38 billion. Net operating profit (after taking into account net finance costs) rose 59% year-on-year on a pro-forma basis in 2Q17 despite fuel prices rising this year.

AirAsia’s net profit shrank 53% year-on-year on a pro-forma basis predominantly because of the MYR212m deferred tax charge booked by Indonesia AirAsia after it participated in the Indonesia Tax Amnesty Program which was a one-off. Excluding this adjustment, net profit rose 18% year-on-year to MYR352m on a pro-forma basis and core profit margin fell 3ppts year-on-year to 15% in 2Q17 despite fuel costs rising 30% year on year.

Corrine Png, an analyst at Crucial Perspective, has indicated that the decline in net profit masks the marked improvement in its core operating profit. She also says the proposed

reorganization of the company is a positive step forward:

“The proposed internal reorganization of AirAsia Group, with one holding company directly controlling the 6 airlines (AirAsia Malaysia, Thailand, Indonesia, Philippines, Japan and India) in operation (and possibly another 2 in Vietnam and China) plus the related businesses will help streamline and centralize the business functions and potentially optimize aircraft utilization. Management expects to reap cost savings of US\$45m by the end of 2018.” (US\$1.00 = MYR4.27 at time of publication.)

**94% of voting shareholders approve China Eastern and Delta investment in Air France-KLM**

The Air France-KLM (the Company) Combined Ordinary and Extraordinary Shareholders’ Meeting was held on Monday, September 4, in order to implement part of the strategic transactions presented on July 27, 2017.

More than 54.85% of the shareholders were present or represented at the Shareholders’ Meeting, where all proposed resolutions were adopted, together with a new resolution relating to the appointment of a nineteenth Board director. The following decisions were taken:

- The appointment of two new Board directors, one each representing China Eastern Airlines and Delta Air Lines, as from the completion of the reserved share capital increases and for a four-year period: Mr. Bing Tang and Delta Air Lines Inc. whose permanent representative will be Mr. George Mattson;
- The appointment of the company Air France-KLM Finance SAS, as nineteenth Board director, as from the completion of the reserved share capital increases to the benefit of China Eastern and Delta Airlines and for a four-year period, whose permanent representative will be a woman;
- The Board of Directors is authorized to implement the reserved capital increases for the benefit of China Eastern Airlines and Delta Air Lines each for a total nominal amount of 37,527,410 euros at a price of 10 euros per share;
- The completion of these reserved share capital increases will be subject to the approval of the corresponding regulatory authorities;
- Capital increases reserved for members of a company or Group savings scheme were authorized for a duration of 12 months and within a limit of 2% of the share capital. This authorization is in place of the resolution of the same nature which was voted by the Shareholders’ Meeting on May 16, 2017.

## FINANCIAL NEWS

**United Technologies agrees to buy Rockwell Collins for US\$30bn**

United Technologies, the jet-engine maker, has agreed to buy Rockwell Collins, the aircraft parts manufacturer, for US\$30bn, including any debt. It has also been confirmed that the Rockwell Collins and UTC aerospace systems operations will be merged to create a new business unit, Collins Aerospace Systems. The basis of the deal will see Rockwell Collins' shareholders receiving US\$140.00 per share in both stock and cash – US\$93.33 in cash and US\$46.67 in United Technologies stock according to a statement from the companies. This offer is based on a premium of US\$18.00 to Rockwell Collins' closing share price on August 3, the day prior to media reports of the Rockwell bid.

According to a statement from UTC's chairman and chief executive officer, Greg Hayes, "This acquisition adds tremendous capabilities to our aerospace businesses and strengthens our complementary offerings of technologically advanced aerospace systems." He then added that "Together, Rockwell Collins and UTC Aerospace Systems will enhance customer value in a rapidly evolving aerospace industry by making aircraft more intelligent and more connected."

The offer includes US\$7 billion in Rockwell's debt, but is expected to save more than \$500 million by the fourth year after its completion, according to a statement from the two companies.

Morgan Stanley & Co was the financial adviser to United Tech and Wachtell, Lipton, Rosen & Katz was its legal adviser.

J.P. Morgan Securities LLC and Citigroup Global Markets Inc were Rockwell's financial advisers, while Skadden, Arps, Slate, Meagher & Flom was its legal advisor.

**EU approves German rescue loan to insolvent Air Berlin**

The European Commission on Monday, September 4, approved Germany's plans to grant insolvent Air Berlin a €150m (US\$180m) loan to allow it to temporarily serve passengers while selling off its business. The 28-nation EU executive effectively refuted critics who say the German government is offering state aid for rival airline Lufthansa to build a monopoly with Air Berlin assets. "The European Commission has endorsed under EU state aid rules Germany's plans to grant Air Berlin a temporary a €150m bridging loan," the commission said in a statement. "The measure will allow for the orderly wind-down of the insolvent airline Air Berlin without unduly

distorting competition in the single market," it added.

It said the German government, on August 15, had notified the commission of its intent to grant a bridging loan to Air Berlin after Etihad, the main shareholder, withdrew its financial backing for the now insolvent firm. The aim of the loan, the commission said, is to allow Air Berlin to continue serving passengers in the "coming months", while at the same time concluding negotiations to sell its assets and eventually exit the market. Under EU rescue and restructuring rules, member states may support companies in difficulty as long as the measures are "limited in time and scope" and promote the common interest. The commission said it has taken into account the fact that the loan will be paid out in instalments under strict conditions, with Air Berlin demonstrating its liquidity needs weekly. It said Germany has also pledged to ensure the loan will either be fully repaid or the government in Berlin will submit a plan to wind down the airline.

## OTHER NEWS

**Safran Electronics & Defense** has reported the selection of its WEFA solution (Wireless Extension For ACMS – Aircraft Condition Monitoring System) dedicated to the capture and transfer of flight data, on the A320neos of its long-standing client, **Air Cote d'Ivoire**. The airline, already using Safran's Cassiopée Flight Data Monitoring solution on its entire fleet, is the first in Africa to install WEFA. Air Cote d'Ivoire is also the launch airline in Africa for the A320neo, which will be equipped with the system at the end of 2019.

**Virgin Atlantic** has become the first airline in Europe to offer Wi-Fi across its entire fleet – ensuring customers can remain connected during flights to and from the US, Caribbean, Africa, Asia and the Middle East. From September 1, millions of customers travelling with Virgin Atlantic can now send emails, browse the Internet and engage with social media at 35,000ft as the airline completes its ambitious Wi-Fi program. Using a combination of Panasonic and Gogo technology, Wi-Fi is now available across a fleet of 39 aircraft and connectivity is available above 10,000ft so customers will be able to connect shortly after take-off, and remain online until shortly before landing.

**The International Air Transport Association (IATA)** has released data for global air freight markets showing that demand, measured in freight ton kilometers (FTKs), increased by

11.4% in July 2017 compared to the same period a year ago. This was the fourth time in five months that double-digit annual growth was recorded. July's year-on-year increase in demand is nearly four times higher than the ten-year average growth rate of 3.1%. Freight capacity, measured in available freight ton kilometers (AFTKs), grew by 3.7% year-on-year in July 2017. Demand growth continues to significantly outstrip capacity growth, which is positive for airline yields and the industry's financial performance.

The robust growth in air cargo demand is consistent with an uptick in global trade, rising export orders and upbeat business confidence indicators. There are, however, signs that demand growth for air freight may be nearing a peak. Seasonally-adjusted air freight volumes were flat in June and fell in July; and the global inventory-to-sales ratio has stabilized. Air cargo often sees a boost in demand at the beginning of an economic upturn as companies look to restock inventories quickly. This tapers as inventories are adjusted to new demand levels.

**Ryanair** has released new, reduced checked bag fees (and increased check-in bag sizes) to encourage more customers to check in bags and reduce the number of customers with two bags at the boarding gates. As too many customers are availing of Ryanair's improved two free carry-on bags service, and with high load factors (97% in August) there is not enough overhead cabin space for this volume of carry-on bags, which is causing boarding/flight delays. To encourage more customers to check-in some bags and reduce the volume of carry-on bags, Ryanair will introduce the following bag policy changes on all flights from November 1. Ryanair says that they hope that by restricting non-priority customers to one small carry-on bag – their wheelie bag must be placed in the hold, free of charge at the boarding gate – this will speed up the boarding of flights and eliminate flight delays being caused by not having sufficient overhead cabin space on busy flights to accommodate over 360 (182 customers x 2 bags) carry-on bags. The check-in bag allowance will increase from 15kg to 20kg for all bags and the standard check-in bag fee will be cut from €135 to €125 (US\$42 to US\$30) for this 20kg bag.

**Austrian Airlines** will introduce its new travel class for all long-haul routes starting March 2018. The carrier's entire fleet will be converted by spring 2018, beginning with the first Boeing 767 on September 6. The centerpiece of the new Premium Economy Class is a new seat providing passengers with more comfort on their journey compared to regular Economy Class seats. All eleven long-haul

PASSENGER STATISTICS - AUGUST

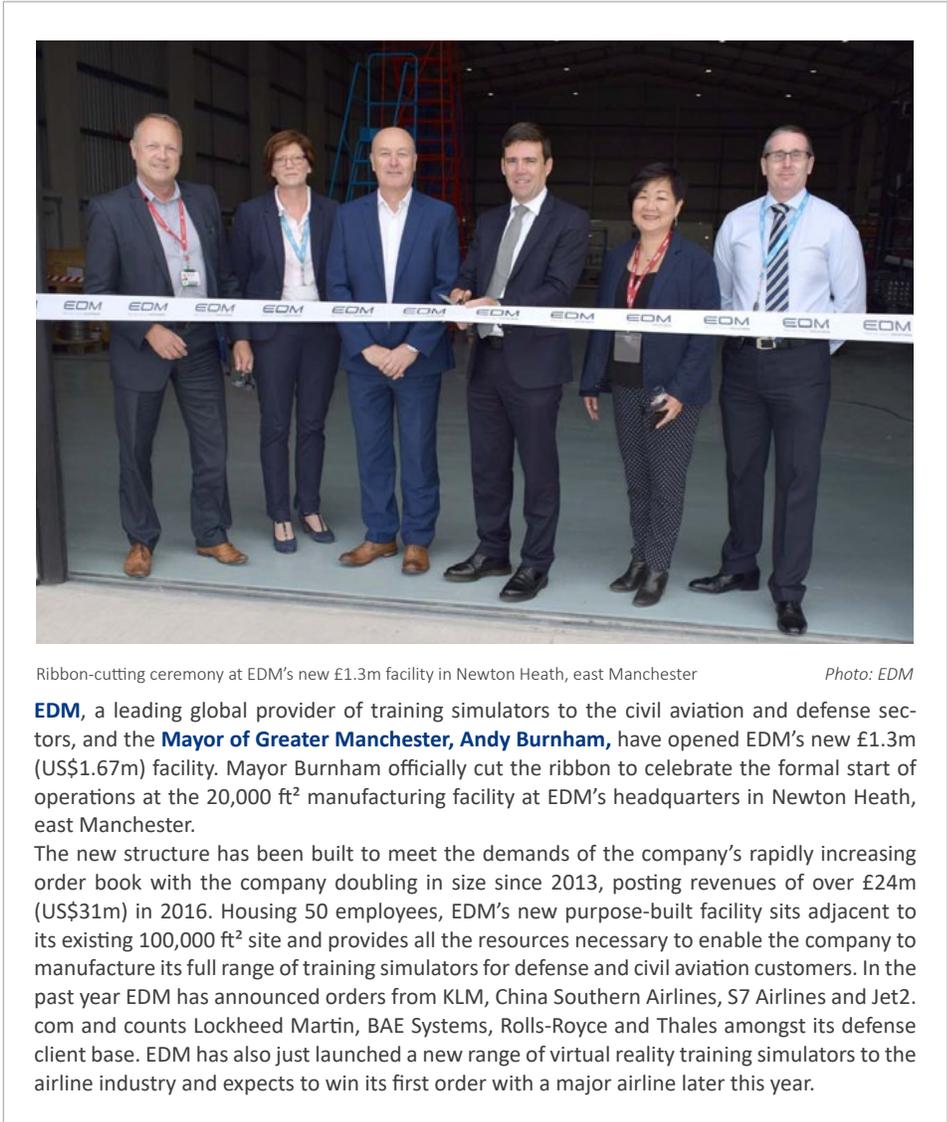
- **Ryanair** has reported that traffic in August 2017 grew 10% compared to August 2016 and the load factor rose 1.0 point to 97% compared to the previous year.
- **International Airlines Group** traffic in August increased by 1.2% versus August 2016, while Group capacity rose by 0.4% compared to the previous year. Group load factor for August was up 0.6 points to 86.5%.
- **Norwegian** has carried almost 3.3 million passengers in August 2017, an increase of 14% compared to the same month the previous year. Total traffic increased by 26% in August, driven by a 24% capacity growth. The load factor increased by 1.4 points to 91.1%.
- In August, **Finnair's** overall capacity increased by 11% year-on-year, and traffic grew by 14.7%. The number of passengers carried during the month was 1.08 million, corresponding to an increase of 10.1% year-on-year. The passenger load factor increased by 2.7 points to 85.8%.

OTHER NEWS

aircraft in the Austrian Airlines fleet will gradually be refitted to include the new travel class. The twelfth long-haul aircraft to be acquired by Austrian Airlines in the spring of 2018 will also be equipped with Premium Economy. The Premium Economy seat, produced specially for the Lufthansa Group, is supplied by the aircraft seat manufacturer ZIM, and provides passengers with plenty of legroom based on seat spacing of up to 97 cm or 38 inches. Additional footrests take the strain off the legs on a long flight. The central armrest with fold-out table between the seats and a personal, broad armrest for every passenger enables more privacy and more room on the side. In addition, every seat is equipped with its own power outlet and USB port.

**GTLK Europe DAC** has chosen **AerData Secure Technical Records for Electronic Asset Management (STREAM)** to digitally manage records of its asset portfolio of narrow- and wide-body airplanes. "As the GTLK Europe portfolio is growing rapidly, we need to implement and regularly improve our IT solutions to manage this growth both technically and commercially," said Roman Lyadov, GTLK Europe DAC Chief Executive Officer. "We have performed considerable market research and came to a decision that STREAM is the best product suited to our needs." A secure and web-enabled system, STREAM allows for the management of records relating to the entire history of aircraft and associated assets, and it is proven to save cost over the life of an aircraft and during redelivery.

**Air BP**, the international aviation fuel products and service supplier, continues to strengthen its presence in France with the announcement that it has renewed its contract to provide fuel operations at Albert Picardie Airport (BYF/LFAQ) for 15 years. The contract, which is effective immediately, follows 10 years of successful collaboration between the two



Ribbon-cutting ceremony at EDM's new £1.3m facility in Newton Heath, east Manchester Photo: EDM

**EDM**, a leading global provider of training simulators to the civil aviation and defense sectors, and the **Mayor of Greater Manchester, Andy Burnham**, have opened EDM's new £1.3m (US\$1.67m) facility. Mayor Burnham officially cut the ribbon to celebrate the formal start of operations at the 20,000 ft<sup>2</sup> manufacturing facility at EDM's headquarters in Newton Heath, east Manchester.

The new structure has been built to meet the demands of the company's rapidly increasing order book with the company doubling in size since 2013, posting revenues of over £24m (US\$31m) in 2016. Housing 50 employees, EDM's new purpose-built facility sits adjacent to its existing 100,000 ft<sup>2</sup> site and provides all the resources necessary to enable the company to manufacture its full range of training simulators for defense and civil aviation customers. In the past year EDM has announced orders from KLM, China Southern Airlines, S7 Airlines and Jet2.com and counts Lockheed Martin, BAE Systems, Rolls-Royce and Thales amongst its defense client base. EDM has also just launched a new range of virtual reality training simulators to the airline industry and expects to win its first order with a major airline later this year.

companies. The contract renewal reinforces Air BP's offering in France; Albert Picardie Airport is one of 94 Air BP-supplied airports in the country. The airport continues to attract international business aviation traffic from China, Russia and the U.S. and is currently growing at an impressive rate of 40% per annum, based on year-on-year movements. One of the air-

port's major customers is the Airbus Group.

**Changi Airport Group (CAG)** has released that the new Terminal 4 (T4) at Changi Airport is scheduled to commence operations on October 31, 2017. This follows the recent successful conclusion of major trials, with a small number

OTHER NEWS

of checks and reviews to be completed in the final phase of the preparations. The first arrival and departing flights at T4 will be operated by **Cathay Pacific** – CX659 from Hong Kong CX650 to Hong Kong respectively. Since October 2016, CAG has collaborated with its airport partners to prepare T4 for flight operations. This began with table-top exercises to develop the standard operating procedures, and later progressed to ground deployment exercises to familiarize staff with the new terminal and processes. Volunteers from the airport community and members of the public were invited to role-play as passengers to test the critical airport systems and processes. These included the Fast and Seamless Travel (FAST) self-service options at check-in, bag drop, immigration and boarding, as well as security screening, baggage handling, flight information, ground transport, way-finding, and transfer processes, etc. T4 will add a capacity of 16 million passengers per annum to Changi Airport, bringing the airport’s total annual handling capacity to 82 million passenger movements.

**MOMook**, intelligent business and training management software developer, has announced that airlines can now monitor pilots’ training progress in real time. **Wizz Air**, **SmartLynx Airlines** and **Viet Flight Training**, a subsidiary of **Vietnam Airlines**, are among the first companies to use the training management solution. Carriers have been provided with an exclusive access to MOMook’s system through the cooperation with aviation academy **BAA Training**. The company is carrying out Cadet Programs for the airlines and uses the software for training process management. The need to access BAA Training’s software system came from the necessity to enhance direct involvement of the airline in the training process and to facilitate the stage of reporting. Generally, a training manager needs approximately 20-30 hours during one group’s training period to manually fill in all the progress reports. Moreover, it should be taken into account that extra time is consumed by additional communication, correction of errors and various inaccuracies. Given all that in mind, real-time monitoring adds even more value to the quality of training. “It is worth highlighting that such technological solutions help perfecting the training system and eliminating risks of human error, as reports are not created manually and the work is done by the system. Also, smart technologies make the work of aviation training centers easier as it allows to improve the working process by saving a lot of valuable time”, comments Egle Vaitkeviciute, CEO of MOMook.

Recommended Events



**Engine Leasing Seminar 2017**  
September 12, 2017, Holiday Inn Kensington Forum, London

**Aircraft Asset Management Seminar 2017** September 13, 2017, Holiday Inn Kensington Forum, London

**Engine Leasing Seminar, FL 2017**  
September 19, 2017, Crowne Plaza, Fort Lauderdale, USA

**STARMAN AUCTIONS**  
[Online Ground Support Equipment Auction Surplus](#)  
*Bids Open September 8th and Close September 21st, 2017*  
[Aviation Estate Auction](#)  
*September 22nd & 23rd, 2017-Ione, California*  
[Dyna-Tech Aviation Services, Inc.](#)  
*September 30th, 2017 ~ Omaha (Millard Airport), Nebraska 68137*

[Click here for more aviation events](#)

INDUSTRY PEOPLE



Frank Mühlenkamp

- **Frank Mühlenkamp** is strengthening Jet-tainer GmbH as its new Director of Operations. He is responsible for the complete management and maintenance of about 90,000 containers and pallets (ULDs) worldwide that are operated by 24 airlines, in conjunction with the leading international service partner for outsourced ULD management. Mühlenkamp launched his career at the Ground Operations department at the Lufthansa hub in Frankfurt. After spending two years at Augsburg Airways, he returned to the Lufthansa Group. Mühlenkamp held several leading positions in ground and flight operations departments and worked in Germany and the United States.
- AJW Group has promoted **Conrad Vandersluis** to Senior Vice President Strategic Material and Asset Management. Vandersluis will focus on helping AJW’s airline customers secure higher returns on their capital expenditure. In particular, his role will include coordinating and developing specific purchasing activity for aircraft spares to support customers – including airlines, aircraft manufacturers and OEMs – in optimizing their inventory and streamlining their operating costs.

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editor@avitrader.com

### Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-112	World Star Aviation Services	CFM56-5B	1429		Nov 2017	Lease	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-220000
A320-200	Castlelake	V2527-A5	2097	2003	Q3/2018	Lease	Neil McCrossan	neil.mccrossan@castlelake.com	+44-207-190-6120
A320-200	Castlelake	V2527-A5	2121	2003	Q2/2018	Lease	Neil McCrossan	neil.mccrossan@castlelake.com	+44-207-190-6120
A320-200	Fortress Investment Group	V2500-A5	561	1995	Oct 2017	Sale - Airframe	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
A330-200	Castlelake	CF6-80E1A4B	441	2001	Q4/2018	Lease	Neil McCrossan	neil.mccrossan@castlelake.com	+44-207-190-6120
A330-200	FPG Amentum	PW4168A	943	2008	Q2/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-200	FPG Amentum	PW4168A	962	2008	Q2/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-223	FPG Amentum	PW4168A	979	2009	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A330-223	FPG Amentum	PW4168A	1002	2009	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A340-313	AerFin	CFM56-5C4	208	1998	Now	Sale / Lease	Robbie Robson	Robbie.Robson@aerfin.com	+44 (0) 7867488152
A340-313	AerFin	CFM56-5C4	218	1998	Now	Sale / Lease	Robbie Robson	Robbie.Robson@aerfin.com	+44 (0) 7867488152
A340-313	AerFin	CFM56-5C4	227	1998	Now	Sale / Lease	Robbie Robson	Robbie.Robson@aerfin.com	+44 (0) 7867488152
B737-300	World Star Aviation Services	CFM56-3C1	28873		Now	Lease	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-220000
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	27149	1993	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-800	ORIX Aviation	CFM56-7B26	34701	2006	Q1/2018	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26	34705	2006	Q3/2018	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26	34707	2006	Q3/2018	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	FPG Amentum	CFM56-7B24E	40150	2013	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
B737-800	FPG Amentum	CFM56-7B26E	40153	2013	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
B737-800	Aersale	CFM56-7B26	30881	2002	Now	Sale / Lease	Sally Browne	Sally.Browne@aersale.com	+353 86 021 4841
B737-800	World Star Aviation Services	CFM56-7B26	32604	2002	Now	Sale / Lease	Paulo Bettencourt	pbettencourt@worldstaraviation.com	+1 415-956-9454
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
B747-400	Jet Midwest	PW4056-3	29906	1999	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296
B747-400BCF	Jet Midwest	PW4056-3	24226	1990	Now	Sale / Lease	Kevin Lee	aircraft@jetmidwest.com	+1-310-652-0296
B757-200	ORIX Aviation	RB 211-535E4	27810	1995	Q1/2019	Sale	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B757-200F	Aerolease	RB211	22211		Now	Sale / Lease	Tim Corley	tcorley@aerolease.com	+1 (360) 870-9172
B757-200F	Aerolease	RB211	22611		Now	Sale / Lease	Tim Corley	tcorley@aerolease.com	+1 (360) 870-9172
B757-222	Bristol Associates	PW2037	25157	1991	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-222	Bristol Associates	PW2037	25322	1991	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-222	Bristol Associates	PW2037	25396	1992	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-222	Bristol Associates	PW2037	25398	1992	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-222	Bristol Associates	PW2037	25698	1991	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B777-200ER	GA Telesis		28999		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B777-200ER	GA Telesis		28523		Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
DC8	Aersale	No engines	46094	1969	Now	Sale	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238

### Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	7484	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164



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### Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-900LR	Regional One	CF34-8C5	15057	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
DASH8-102	Magellan Aviation Group	PW121	113	1988	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
DASH8-311	Regional One	PW121	230	1990	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
DASH8-311	Magellan Aviation Group	PW123	266	1991	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
Dornier 328-200	Regional One	PW306B	3145	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Dornier 328-200	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
E170	AerFin	CF34-8E	121		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
E170	AerFin	CF34-8E	158		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
E170	AerFin	CF34-8E	114		Now	Sale / Lease	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
ERJ-135ER	Bristol Associates		145176	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135ER	Bristol Associates		145186	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135ER	Bristol Associates		145192	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates	AE3007-A1	145410	2001	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates	AE3007-A1	145413	2001	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates	AE3007-A1	145504	2001	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-145	Regional One	AE3007A1P	145291	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Bristol Associates	AE3007-A1/3	145208	1999	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-145LR	Bristol Associates	AE3007-A1/3	145239	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-145LR	Bristol Associates	AE3007-A1/3	145302	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000

### 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
<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	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
<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) CF34-8C5B1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(8) CF34-8E	Q4/2017 - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(1) CF34-10E7	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
(2) 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) CF6-80C2A2/A5	Now - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44-207-190-6119
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	



Engine Lease Finance



### Commerical Engines (cont.)

CFM56 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-3C1	Aug 17 - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
(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				
(2) CFM56-5C4	Now - Sale/Lease/Exch.	TrueAero, LLC	Ed Blyskal	eblyskal@trueaero.com	+1 305-525-7308
(1) CFM56-5C4/P	Now - Sale/Lease/Exch.				
(1) CFM56-7B22/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(2) CFM56-5C4/P	Now - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44-207-190-6119
(1) CFM56-7B27/3B1F	Now - Sale/Lease/Exch.	AerSale, Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CFM56-5B1/3	Now - Sale / Lease				
(2) CFM56-3C1	Now - Sale / Lease				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5C4	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) CFM56-5B6 TRUEngine™	Now - Sale / Exchange	CFM Materials	Jimmy Hill	Jimmy.Hill@cfmmaterials.com	+1 214-988-6670
(1) CFM56-7B20 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B24 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B27 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-5B4/P TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B26	Now - Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) CFM56-3C1	Now - Sale / Lease				
(2) CFM56-5C3/F4	Now - Sale/Lease/Exch.	AerFin	R. Rosser		+442921676296
(7) CFM56-5C4	Now - Sale/Lease/Exch.				
(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	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(2) CFM56-5C4	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-7B24/3	Now - Lease				
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-219	Now - Sale	Azure Resources	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
(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	Robert Huffman	rhuffman@gatelesis.com	+1 954 676 3111
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121 (Dash 8)	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW121 (ATR)	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				

### Commerical Engines (cont.)

PW127M	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW150 GRB	Now - Lease				
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(1) PW127F			Remi Krysz	rkrysz@logix.aero	+33.6.2079.1039
(1) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
<b>PW2000 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) PW2037M	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
<b>PW4000 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) PW4056-3	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW4090	Now - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44-207-190-6119
(1) PW4168A	Sep 17 - 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) PW4056-3	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
<b>RB211 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) RB211-535E4B	Now - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44-207-190-6119
(1) RB211-535	Now - Sale/Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
(1) RB211-535E4	Now - Sale	World Star Aviation Services	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
<b>Trent Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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.	Brett Slapke	bslapke@trueaero.com	+1 972-584-1606
(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
<b>V2500 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
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) V2533-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werneraero.com	+1-703-402-7430

### Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(5) A340 fresh part outs	Now - Sale	TrueAero, LLC	Dan Barton/Dave Walters	sales@trueaero.com	+1 772-925-8026
A320 Landing Gear with Fresh Tags	Now - Sale				
A340 Landing Gear	Now - Sale				
CTCP331-350C (4) PN 3800454-6	Now - Sale				
GTCP36-300A, PN 3800278-4	Now - Sale				
(1) GTCP36-150RJ, (2) GTCP36-100M, (1) RE220RJ, (1) PW126 RGB, (1) PW901A	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-500B			Rich Lewsley	rlsley@logix.aero	+44.79.0021.8657
APU GTCP 131-9B, 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
767-300ER 413K LANDING GEAR	Now - Sale	Azure Resources	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
737-300/400 LANDING GEAR					
CFM56-3 MODULES					
ENGINE STANDS: Trent 800, PW4000 112"/V2500 / CFM56/ PW2000 & Bootstrap kits		National Aero Stands		support@stands.aero	+ 1 305-558-8973
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Werneraero.com	+1 201-674-9999
GTCP36-300A, 737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
737-800 NOSE LANDING GEAR PN 162A1100-5, OH - Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
767-300 Winglets, LH-RH P/N 767-0010-7 & -8					
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368