

## WORLD NEWS

### South Africa's first self-bag drop and mobile boarding

Lanseria International Airport is investing in SITA's self-service technology that will add new convenience for passengers while providing improved common-use functionality for airlines. Using SITA's self-service systems, passengers will now be able to quickly check-in and drop their bags before proceeding directly to the gate without having to visit a traditional check-in counter. In a first for a South African airport, passengers who have checked-in online or on their mobile device can now tag and drop their bags in less than a minute using SITA's Scan&Fly self-bag-drop units.

### Heathrow flies high

Heathrow beat all-time records in passenger traffic during the six months ended June 30<sup>th</sup>, with the airport processing 37.1 million passengers. New services such as the Flybe connections to Scotland and new long haul destinations like Portland and New Orleans enhanced domestic connectivity and open new trading routes to British exporters. Working with airlines, Heathrow says it's making good progress towards meeting the Government's challenge to deliver expansion with airport charges close to current levels

### Czech Airlines Technics enters into landing gear agreements.

Czech Airlines Technics (CSAT), has entered into four new Landing Gear Maintenance Agreements. CSAT has provided landing gear maintenance services for 17 years. Based on the new agreements, CSAT workers will service Boeing 737NG landing gear sets for Germania, Primera Air Nordic and Air Madagascar as well as Boeing 737-400 classic generation landing gear sets for Atran, a Russian cargo carrier.



Delays at immigration is causing chaos for travellers.

Photo: Amadeus

## European summer flight delays

### Concerns over understaffed EU borders

Thousands of flights recently had to be delayed because European Union (EU) border controls are significantly understaffed to comply with tighter immigration checks, according to trade body Airlines for Europe (A4E).

During this busy summer travel season, airline travellers have become victims of the disproportionate impact that the implementation of a new EU regulation is having on the flow of traffic at European airports. The regulation relates to the reinforcement of checks against relevant databases at external borders.

"Member States need to take all necessary measures now to prevent such disruptions and deploy appropriate staff and resources in sufficient numbers to carry out the requested checks. A4E has stressed the disproportionate waiting times and disrupted flow of traffic at external borders with

ing for up to four hours has been the top record these days; airports like Madrid, Palma de Mallorca, Lisbon, Lyon, Paris-Orly, Milan or Brussels are producing shameful pictures of devastated passengers in front of immigration booths, in

lines stretching hundreds of metres. At some airports, flight delays have increased by 300% compared to last year — Member States must take the responsibility for this," added Reynaert.

The regulation is not fully implemented in all Member States, which may lead to even more disruption during the coming weeks.

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*Thomas Reynaert, Managing Director of A4E*

the European Commission and calls for a swift solution on behalf of European passengers and airlines," said Thomas Reynaert, Managing Director of A4E.

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The six month period to implement the regulation ends on 7 October 2017. A4E fully supports EU efforts to reinforce controls at external borders so as to preserve Schengen's free movement area, but Member States' inability to provide efficient resources is directly impacting European airlines' operations at European airports.

Over the past weeks, airlines have informed A4E of the disproportionate impact that the implementation of Regulation (EU) 2017/458 amending Regulation (EU) 2016/399 as regards the reinforcement of checks against relevant databases at external borders of 15 March 2017 is having on the flow of traffic at European airports.

**AIRCRAFT & ENGINE NEWS**

**AW189 to support Oil and Gas operations in Russia from Sakhalin Island**

Leonardo has reported that an AW189 super-medium helicopter will be operated by Aviasshelf to perform transport operations from Sakhalin Island in Russia supporting the Oil & Gas industry. The aircraft will be supplied together with a support and training package with delivery expected in summer 2018. The AW189 will be equipped with a Full Ice Protection System (FIPS) allowing operations in known icing conditions when other helicopters would be grounded.

**AviaAM Leasing sells fourth Airbus A321 with lease attached**

On July 20, AviaAM Leasing sold one Airbus A321-211 aircraft (MSN 2342) with lease attached. This was the fourth aircraft on lease to Small Planet Airlines, that had been sold within the last months. All four aircraft came in the configuration of 220 economy seats.

**CFM expands footprint in Russia**

CFM International continues to maintain a strong leadership position within the Commonwealth of Independent States (CIS) with CFM56 and LEAP engines, in service or on order, to power more than 490 single-aisle Airbus and Boeing aircraft for 29 operators throughout the region. In June, VEB Leasing became the launch customer in Russia for CFM's advanced LEAP-1A engine with an order for 40 LEAP-1A engines to power Airbus A320neo air-

**Norwegian Police Directorate chooses AW169 as new law enforcement helicopter**



Norwegian Police Directorate chooses AW169 as new law enforcement helicopter Photo: Leonardo

Leonardo has released that the Norwegian Police Directorate has chosen the AW169 as their new law enforcement helicopter following a tender for their helicopter service modernization program. The contract, expected to be signed in August 2017, will include three aircraft, with an option for a further three units, and a 10-year maintenance package. The new aircraft will enable the Norwegian Police to enhance their capabilities and readiness to counter various threats such as terrorism and other crimes, delivering greater range than the current helicopters in service, and rapid response over shorter ranges from other bases when necessary. The AW169s will perform a range of tasks including observation, surveillance, special operations team transport and airborne sniping, ensuring high versatility with quick and easy reconfiguration between roles. The specific layout of the Norwegian Police's helicopters will allow the transport of six people plus crew.

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craft. The leasing company also ordered 44 LEAP-1B engines for new Boeing 737 MAX airplanes. The LEAP product line has had a successful entry into service with the LEAP-1A beginning commercial operations with Pegasus in August 2016 and the LEAP-1B with Malindo in May 2017. There are about 80 LEAP-powered airplanes currently in service with 18 operators. Since the first CFM56 engines were delivered in the CIS, the overall fleet has steadily grown to today's total of 794 engines. Aeroflot has the largest fleet in Russia, operating nearly 200 CFM-powered aircraft. This fleet continues to maintain the industry-leading reliability that is the hallmark of the CFM56 product line. In addition to its very important customer base, CFM also sources several million dollars in parts for both its CFM56 and LEAP product lines from Russia's VolgaAero, and VSMPO. This is part of CFM's strategy to continually develop long-term relationships within the Russian aerospace industry.

**Bombardier delivers first dual-class, 86-seat Q400 aircraft to Philippine Airlines**

Bombardier Commercial Aircraft delivered the world's first dual-class, 86 seat turboprop aircraft to Philippine Airlines at its facility in Toronto, Canada, where the aircraft was manufactured. Philippine Airlines' new Q400 aircraft is configured with 86 seats in economy and premium economy classes, with a 29-inch and 33-inch seat pitch respectively. This milestone aircraft is part of Philippine Airlines' purchase agreement announced on December 8, 2016 – which included a firm order for five Q400 aircraft and purchase rights for an additional seven. Following the exercise of the purchase rights announced at the 2017 International Paris Air Show, Philippine Airlines now has firm orders for 12 Q400 aircraft.

**Air Partner appointed by Saudi Arabian Airlines as exclusive re-marketing agent**

Air Partner's Aircraft Remarketing division (formerly Cabot Aviation), has been appointed by Saudi Arabian Airlines (Saudia) as its exclusive re-marketing agent in respect of fifteen Boeing 777-200ER aircraft. These state-of-the-art Boeing aircraft were purchased from Boeing and delivered new to Saudia from 1997 onwards. They are powered by GE90 engines and have a total of 232 seats in a tri-class configuration layout, comprised of 24 First Class seats, 38 Business Class and 170 Economy seats. Saudia is undergoing a revitalization of its fleet, which includes phasing out these Boeing 777-200ER aircraft as it makes room for higher-density aircraft to align with its upcoming network growth plans on both regional and international routes. As part of the airline's SV2020 Transformation Plan, multiple new aircraft are joining the Saudia fleet monthly, allowing the carrier to optimize its net-

**S7 Airlines takes delivery of first A320neo**



S7 Airlines takes delivery of first A320neo

Photo: Airbus

S7 Airlines, one of Russia's leading carriers and member of Oneworld global airline alliance, has taken delivery of its' first A320neo which is on lease from BOC Aviation. The aircraft is the first Airbus to feature the airline's new livery and is also the first NEO to be operated in Russia. Powered by Pratt & Whitney engines, S7's aircraft features a comfortable two-class cabin layout, (eight business and 156 economy class seats). The airline will operate the aircraft on domestic and international routes. Since the first aircraft entered service in 2004, S7's Airbus fleet has grown to 44 A320 Family aircraft.

**Airbus delivers its 100th A350 XWB**



Airbus delivers its 100th A350 XWB

Photo: Airbus

When China Airlines received its seventh A350 XWB on June 26, the carrier took possession of the 100th jetliner delivered from this newest family in Airbus' wide-body product line. The milestone aircraft is an A350-900 version, joining China Airlines' growing A350 XWB fleet – adding to the line-up of wide-body A330s and A340s flown by the long-time Airbus customer, which is based in Taiwan. Having now received half of its 14 A350-900s on order, China Airlines is benefitting from the A350 XWB's maturity and flexibility on both regional and long-haul services – including the Taipei-San Francisco route.

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**AIRCRAFT & ENGINE NEWS**

work to offer increased capacity on existing routes, and also to introduce new destinations. The ongoing fleet investment will bring the airline's average aircraft age to 3.75 years by the end of this year, which is a key element of Saudia's targeted strategy to operate one of the youngest fleets in the skies. By 2020, the airline is set to operate 200 aircraft in its fleet. New aircraft to be delivered to Saudia include: A330-300s, B787-9s and B777-300ERs.

**Vector Aerospace successfully completes first AS350 CRFT flight test**

Vector Aerospace Corporation, a global independent provider of aviation maintenance, repair and overhaul (MRO) services, and its partner Robertson Fuel Systems (RFS), a HEICO Company, have reported that their Crash-Resistant Fuel Tank (CRFT) for the Airbus AS350 light single helicopter family has successfully completed its first flight. This second major milestone toward Federal Aviation Administration (FAA) certification of the retrofittable CRFT comes shortly after the successful completion of an FAA-certified 50-foot drop test that demonstrated the tank's ability to withstand impact without any leakage, thereby helping to prevent post-crash fires. The new CRFT has since been installed on two flight test aircraft, an AS350 B2 and an AS350 B3, with both undergoing extensive ground-testing as the program progresses steadily forward.

**MRO & PRODUCTION NEWS**

**XIESA joint venture between Safran Landing Systems and China Eastern Airlines starts construction of first MRO center**

On July 20, 2017, before the first meeting of the Board of Directors of the new joint venture XIESA, Vincent Mascré, Chief Executive Officer of Safran

Landing Systems, and LIU Shaoyong, Chairman of China Eastern Group, jointly laid the cornerstone for a new center of excellence dedicated to landing gear maintenance, repair and overhaul (MRO). Located in the airport zone of the city of Xi'an, the new MRO center will be operated by XIESA (Xi'an CEA Safran Landing Systems Services), the joint venture created on November 1, 2016 by China Eastern Airlines, one of China's three major state-owned carriers which are the backbone of the air transport group, and Safran, the French aerospace and defense giant. Xi'an is already home to a maintenance hub, under development, for the China Eastern Airlines fleet. It gives both partners an ideal location for their new landing gear MRO plant, at the departure point for the historic "Silk Road", as well as the new rail network intended to link China and Europe. The capital of Shaanxi province, Xi'an offers a large pool of top-flight skills for XIESA, which aims to provide outstanding local services.

**Kellstrom Aerospace extends agreement with AMETEK Sensors & Fluid Management Systems**

Kellstrom Aerospace has announced a five-year extension of its distribution contract with the AMETEK Sensors Fluid Management Systems Business Unit (AMETEK Sensors) through 2023. This agreement will allow Kellstrom to continue servicing international airlines and MROs with factory-new AMETEK Sensors line-replaceable units (LRU's) while minimizing interruptions in the supply chain. "We are excited about the opportunity to continue our relationship for another five years with the AMETEK Sensors Group," comments Jeff Lund, CEO of Kellstrom Aerospace. "As AMETEK Sensor's exclusive international distributor, Kellstrom Aerospace will continue to invest and expand its platforms to support the growth of AMETEK Sensor's aftermarket including factory new spare replacements, exchange programs and initial provisioning initiatives in support of newer platforms that include the LEAP engines."

**Magnetic MRO and Crestline Investors establish joint venture for aviation assets**

Magnetic MRO, a Total Technical Care MRO provider, and Crestline Investors, a U.S.-based institutional alternative asset manager, have established a joint venture for aviation asset investments. The newly established company, Magnetic Parts Trading Limited, will focus on acquiring aircrafts and engines for immediate part-out, or short-term lease and subsequent part-out. Crestline Investors will furnish Magnetic Parts Trading Limited with the majority of its capital needs, while Magnetic MRO will focus on project managing the investment, part-out and value realization process. Magnetic Parts Trading Limited will aim to invest in the most popular narrow-body aircraft, such as the A320 and B737 families and their corresponding engines. The agreed capital structure will allow for immediate investments into a significant number of new-generation aircraft and engines, as well as the flexibility to purchase fleets of aircraft, or assets with remaining leases attached.

**SR Technics secures several new contracts**

MRO service provider SR Technics, has reported strong operational performance in H1 2017. Besides significantly expanding its engine capacity with over 90 shop visits during the first six months of the year, the company helped its clients with state-of-the-art cabin upgrades in record time, along with over 60,000 line maintenance events and over 32,000 delivered components. In addition, SR Technics has signed important new contracts, including a twelve-year ICS contract with Philippine Airlines, a five-year component support agreement with Germania, and a three-year thrust reversers contract with easyJet. SR Technics' biggest business, Engine Services, has benefitted greatly from the strong growth. To date, the company has delivered over 4,300 CFM and Pratt & Whitney engines, with a yearly capacity of about 200 shop visits. With operations in Zurich and Malta, Aircraft Services completed several complex



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**MRO & PRODUCTION NEWS**

cabin modifications and inflight entertainment installations for commercial and VIP aircraft, in addition to contracted base and heavy maintenance checks. The company also supported leasing companies with cabin modifications, C-checks and external paint when their aircraft changed lessors. SR Technics has strengthened its presence in the fast-growing Asia region, bringing more work to its modern Kuala Lumpur component facility, which currently has a capability of about 750 part numbers. Additionally, the company is developing its line stations and has extended its line maintenance capabilities for the Airbus A350 and A320neo in Zurich and Geneva. With training facilities in Zurich and Abu Dhabi, SR Technics is also enhancing its offer of professional training courses.

**Jet Aviation expands services in the Caribbean with FBO grand opening in San Juan**

Jet Aviation marked the expansion of flight services in the Caribbean on July 13, with the grand opening of a new Fixed Base Operation (FBO) in San Juan at the Luis Muñoz Marin International Airport. Jet Aviation is managing the recently-completed FBO through an agreement with Pazos, which has built a tradition of FBO excellence with an experienced, trained and professional staff over the last 25 years. The facility is a long-standing member of the Air Elite global network of exceptional FBOs.

**Nile Air extends contract with AJW Group for entire A320 fleet**

Nile Air has renewed its contract agreement with AJW Group to service its entire A320 fleet, nearly doubling the number of aircraft previously supported. The agreement with one of Egypt's leading airlines includes comprehensive 'Power by the Hour' (PBH) support with on-site stock. Nile Air is the largest and fastest-growing private airline in Egypt, operating out of five airports across Egypt and offering services to the wider Middle East, Arabian Gulf, Southern Europe and Africa.

**Storm Aviation introduces base maintenance services**



Storm Aviation to launch light base maintenance services at London-Stansted airport Photo: Avia Solutions Group

Storm Aviation, one of the leading line maintenance and technical training service providers in Europe, has announced the launch of light base maintenance services at its headquarter facilities at London-Stansted airport. The UK Part-145- and Part-147-approved organization will provide base maintenance services such as large component change programs, modifications and equalized scheduled base maintenance up to 1C-Check level to operators of Airbus A320 family and Boeing 757 aircraft. At its MRO base in the renowned wide-body-capable Diamond hangar, Storm Aviation's specialists will offer 24/7 AOG support, major and minor modification services, engineering and maintenance planning, refurbishment and aircraft interior changes, as well as engine repair works and engine changes to airlines operating Airbus A319, A320, A321 and Boeing 757. Storm Aviation is a subsidiary of FL Technics, a global provider of aircraft maintenance, repair and overhaul services with hangars in Europe and Southeast Asia.

**FINANCIAL NEWS**

**Air France-KLM strengthens strategic partnerships, buys stake in Virgin Atlantic**

Air France-KLM has announced a further major step in the reinforcement of its strategic partnerships with the creation of a single global joint-venture between Air France-KLM, Delta Air Lines and Virgin Atlantic, and the strengthening of its partnership with China Eastern Airlines. Air France-KLM will acquire Virgin Group's 31% stake in Virgin Atlantic for £220m (US\$288m) and Delta and China Eastern will each acquire a 10% stake in Air France-KLM within the framework of reserved capital increases totaling €751m (US\$984m). All of these agreements will enable Air France-KLM to offer its customers an expanded network and to capitalize on the pooling of exten-

sive distribution networks. As an integral part of the Trust Together strategic project, these partnerships will support the group's profitable growth and enable Air France-KLM to offer its customers an unparalleled proposition. The creation of this joint venture will thus consolidate Air France-KLM's leadership position in the North-American and European markets with the largest airline network articulated around twelve powerful hubs on both sides of the Atlantic: Amsterdam, Atlanta, Boston, Cincinnati, Detroit, Los Angeles, London Heathrow, Minneapolis-St Paul, New York-JFK, Paris-CDG, Salt Lake City and Seattle. In parallel, Air France-KLM and China Eastern will step up their commercial cooperation and reinforce their partnership within the framework of the existing joint venture. These capital increases will enable an improvement in Air France-KLM's financial structure, and accelerate the reduction in its net debt and

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**FINANCIAL NEWS**

finance the purchase of the stake in Virgin Atlantic.

**Grupo Viva Aerobus increases total operating revenues by 42% in second quarter of 2017**

Grupo Viva Aerobus, holder of Viva Aerobus, Mexico's ultra-low-cost airline, reported a 42% increase in its total operating revenues for the second quarter of 2017 compared to the same period in 2016, reaching 1,872 million pesos (US\$105 million). Viva Aerobus also reported a 29% increase in its net income compared to Q 2 2016, with a total of 149 million pesos and a margin of 8%. These results were driven by its growth in capacity, load factor and passenger traffic thanks to the most competitive prices on the Mexican market. Additionally, the second quarter of 2017 included the Easter high season, which in 2016 fell in the first quarter. Thus, Viva Aerobus transported more than 2 million passengers, a growth of 46% over the same period of the previous year, obtaining a load factor of 91%, 9.7 points higher than 2Q2016.

**Airbus reports half-year 2017 results**

Airbus SE has reported half-year (H1) 2017 financial results and maintained its guidance for the full year. Order intake totaled €37.2bn (H1 2016: €39.1bn) with the order book valued at €981bn as of June 30, 2017 (year-end 2016: €1,060bn). A total of 203 net commercial aircraft orders were received (H1 2016: 183 aircraft), with the order backlog comprising 6,771 aircraft at the end of June. During June's Paris Air Show, 144 firm orders and 202 commitments were announced. Net helicopter orders increased to 151 (H1 2016: 127 net orders), including 30 H225Ms for Kuwait. Defence and Space's order intake was impacted by the perimeter changes from portfolio reshaping and some slowdown in telecommunication satellites. Good order momentum was seen in Military Aircraft with orders for 19

Light and Medium aircraft booked. Revenues were stable at €28.7bn (H1 2016: €28.8bn) despite the perimeter changes in Defence and Space. Commercial Aircraft revenues rose 3% with deliveries of 306 aircraft (H1 2016: 298 aircraft) comprising 239 A320 Family, 30 A350 XWBs, 31 A330s and six A380s. Helicopter revenues increased 9% with deliveries of 190 units (H1 2016: 163 units). Revenues at Defence and Space reflected a negative impact of around €1.2bn from the perimeter changes. EBIT Adjusted – an alternative performance measure and key indicator capturing the underlying business margin by excluding material charges or profits caused by movements in provisions related to programs, restructuring or foreign exchange impacts as well as capital gains/losses from the disposal and acquisition of businesses – totaled €1,099m (H1 2016: €1,679m). Commercial Aircraft's EBIT Adjusted was €954m (H1 2016: €1,269m), reflecting the aircraft delivery mix and phasing as well as transition pricing. Good progress was made on the A350 industrial ramp-up with 30 deliveries compared to 12 in the first half of 2016. The A350 program is on track to meet the monthly production rate target of 10 aircraft by the end of 2018. The level of outstanding work has improved in the industrial system and supply chain bottlenecks are improving. In the second quarter, Qatar Airways cancelled four A350 delivery slots. The focus remains on recurring cost convergence. On the A320neo program, 59 aircraft were delivered compared to eight in the first half of 2016. The A320neo ramp-up remains challenging and customers are still experiencing a number of in-service engine issues. Engine supplier Pratt & Whitney has introduced some fixes but these improvements have not come through yet on a reliable basis under normal service conditions. Close to 200 A320neo deliveries are still targeted for 2017 but this objective is more challenging given these engine issues. Considering the current A380 order booking situation, 2019 deliveries will be adjusted to eight aircraft. As the basis for its 2017 guidance, Airbus expects the world economy and air traffic to grow in line with prevailing independent forecasts, which assume no major disruptions.

**Honeywell reports financial results for second quarter of 2017**

Honeywell has reported financial results for the second quarter of 2017. Honeywell sales for the second quarter were up over 3% on an organic basis and up 1% on a reported basis. The difference between reported and organic sales is the impact of foreign currency translation, the 2016 spin-off of the former Resins and Chemicals business in Performance Materials and Technologies, and the 2016 divestiture of the aerospace government services business, partially offset by the Intelligrated acquisition in Safety and Productivity Solutions. Aerospace sales for the second quarter were up 2% on an organic basis driven by strength in Commercial Aftermarket, growth in U.S. defense, and a continuing recovery in commercial vehicles in Transportation Systems. Segment margin expanded 140 bps to 22.3%, primarily driven by higher volumes, productivity net of inflation, and the favorable impact of the 2016 divestiture of the government services business.

**Alaska Air Group reports second-quarter 2017 net income of US\$296m**

Alaska Air Group reported net income for the second quarter under Generally Accepted Accounting Principles (GAAP) of US\$296m, compared to net income of US\$260m in 2016. As the acquisition of Virgin America closed on Dec. 14, 2016, second-quarter 2017 information reflects the results of Virgin America, including the impacts associated with purchase accounting. Second-quarter 2016 results do not include Virgin America. Second-quarter net income, excluding merger-related costs and mark-to-market fuel hedging adjustments, was US\$312m, compared to US\$263m in the second quarter of 2016. Alaska Air Group generated approximately US\$1.1bn of operating cash flow and used approximately US\$512m for capital expenditures, resulting in US\$572m of free cash flow in the second quarter of 2017.

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**FINANCIAL NEWS**
**Ryanair posts first-quarter profit rise of 55%**

Ryanair has posted a 55% rise in first-quarter profit to €397m (US\$460.5m). This result is distorted by the timing of Easter in the first quarter, with no holiday period in the prior year comparative. Traffic grew 12% to 35m as Ryanair's lower fares and "Always Getting Better" (AGB) programme delivered a record 96% load factor. Ryanair took delivery of 14 new B737's in the first quarter, ahead of the peak summer period. In June the airline ordered 10 more B737-MAX-200 "Game Changer" aircraft. Five of these will be delivered in spring 2019 and five more in spring 2020. In addition, Ryanair agreed extensions of ten operating leases.

**JetBlue reports second-quarter net income of US\$211m**

JetBlue Airways has reported its results for the second quarter 2017, with operating income of US\$354m, an increase of 13.0% from the second quarter of 2016. Pre-tax income was US\$332m, an increase of 14.9% from the second quarter of 2016. Second-quarter net income was US\$211m, compared to net income of US\$181m the previous year. JetBlue reported second-quarter operating revenues of US\$1.8bn and revenue passenger miles increased 5.0% to 12.1bn on a capacity increase of 4.8%, resulting in a second-quarter load factor of 85.2%, a 0.2-point increase year over year.

**Scot and Tigerair complete merger – will fly as Scoot**

Subsequent to Scoot and Tigerair starting to integrate their reservation systems, flight schedules and connections, conditions of carriage, check-in counters and call centers in May 2016, on the 25th of this month the integrations were completed and the two carriers have now merged under the single brand name, Scoot. The Scoot designator code of TZ has now been redesignated as TR. Tigerair began in 2003 as an independent airline based out of Singapore Changi Airport, however in 2014, the carrier's parent company, Tiger Airways Holdings, became a subsidiary of the Singapore Airlines Group (SIA) after a 56% controlling stake was acquired. Tigerair's fleet of 31 aircraft, comprising 27 Airbus and eight Boeing jets have been transferred to Scoot. Scoot is the low-cost medium-to-long haul branch of SIA and is managed by Budget Aviation Holdings, a wholly owned subsidiary of SIA which was created in May 2016 to own and manage both Scoot and Tigerair. The low-cost carrier was established in 2012 and it owns and operates the world's first all-787 Dreamliner fleet, which operates between Singapore and Sydney, Gold Coast, Bangkok, Taipei, Tokyo, Tianjin,

**MILITARY AND DEFENCE**
**Embraer KC-390 successfully concludes world demonstration tour**


Embraer KC-390 concludes world demonstration tour

Photo: Embraer

The new multi-mission military transport and tanker jet, the KC-390, has concluded a successful 40-day demonstration tour. During this tour, it flew over 19 countries and was presented to nine nations in Europe, Africa, Asia and Oceania. In total, 130 flawless flight hours were recorded, including several demonstration flights with representatives of potential operators. The aircraft departed from Gavião Peixoto unit, in the state of São Paulo, and headed towards Sweden, where it was shown before flying to Le Bourget Airport, on the outskirts of Paris. There, the KC-390 was presented at the 52nd annual Paris Air Show, in June, making its flight display debut and becoming one of the highlights of the event. After France, the KC-390 continued on with a series of demonstrations, before returning to Brazil this week. The aircraft demonstrated remarkable robustness and presented 100% of availability throughout the tour, in which 52 landings were made in 18 different countries. In total, the KC-390 covered 49,537 nautical miles (91,743 km), equivalent to more than two turns around Earth over the equator. During demonstrations, the aircraft was evaluated in high temperature and high-altitude take-offs, in low-level navigation (flying at 120°F, or 49°C, ambient temperature) and in simulated operational conditions, such as paratrooper dropping.

Shenyang, Nanjing, Qingdao, Seoul, Hong Kong, Perth, Osaka, Kaohsiung, Hangzhou, Melbourne, Guangzhou, Jeddah, Chennai, Amritsar, Sapporo, Dalian and Athens. Scoot and Tigerair offer a combined network of 60 destinations over 17 countries across the Asia Pacific and both airlines are part of Value Alliance, the world's first pan-regional low-cost carrier alliance.

**Boeing reports strong second-quarter results**

Boeing has reported strong earnings and operating cash flow in the second quarter of 2017, driven by improved operating performance. Second-quarter GAAP earnings per share increased to US\$2.89 and core earnings per share (non-GAAP) increased to US\$2.55. Revenue was US\$22.7bn, reflecting planned production rates and timing of commercial and defense aircraft deliveries. Operating cash flow in the quarter of US\$5.0bn was driven by strong operating performance

and favorable timing of receipts and expenditures. During the quarter, the company repurchased 13.6 million shares for US\$2.5bn, leaving US\$9.0bn remaining under the current repurchase authorization. Commercial Airplanes second-quarter revenue was US\$15.7bn, 10% down from the previous year second quarter, on planned production rates and timing of deliveries. Second-quarter operating margin was 10.0%, reflecting solid execution. During the quarter, Commercial Airplanes delivered the first 737 MAX 8 aircraft and announced the launch of the 737 MAX 10. Demand continues to be healthy with 571 incremental orders and commitments announced at the Paris Air Show, including 56 for wide-body aircraft and 361 for the launch of the 737 MAX 10. Also at the Paris Air Show, a number of commercial service agreements were announced that provide further growth opportunity for Boeing Global Services. Commercial Airplanes booked 183 net orders during the quarter.

## FINANCIAL NEWS

Backlog remains robust with more than 5,700 airplanes valued at US\$424bn.

## DAE announces pricing of US\$2.3bn Senior Notes

DAE Funding (DAEF), a wholly-owned subsidiary of Dubai Aerospace Enterprise (DAE) has priced US\$500,000,000 aggregate principal amount of 4.00% Senior Notes due 2020, US\$800,000,000 aggregate principal amount of 4.50% Senior Notes due 2022 and US\$1,000,000,000 aggregate principal amount of 5.00% Senior Notes due 2024 (collectively, the Notes). The Notes will be fully and unconditionally guaranteed by DAE. DAE intends to use a portion of the net proceeds from this offering, along with cash on hand, to pay the cash purchase price for its previously announced acquisition of the AWAS group of companies, as well as for related fees and expenses, and any remaining net proceeds for general corporate purposes, which may include the future repayment of outstanding indebtedness. Settlement of the offering is expected to occur on August 4, 2017. Pending the consummation of the acquisition of AWAS, the gross proceeds of the offering will be placed into an escrow account with Wells Fargo Bank, National Association.

## OTHER NEWS

Boeing released its 2017 Pilot and Technician Outlook today at [EAA AirVenture Oshkosh](#) and projects a demand for more than 1.2 million pilots and technicians over the next 20 years. Now in its eighth year, the outlook is a respected industry study that forecasts the 20-year demand for crews to support the world's growing commercial airplane fleet. Boeing forecasts that between 2017 and 2036, the world's commercial aviation industry will require approximately:

637,000 new commercial airline pilots

648,000 new commercial airline maintenance technicians

839,000 new cabin crew members

The 2017 outlook shows a slight increase of 3.2% for pilots over the 2016 outlook, and a slight decrease in the need for airline maintenance technicians (4.6%), primarily driven by the reduction in maintenance hours required on the 737 MAX.

**Bombardier** has expanded its Challenger 300 training capacity in Dallas, complementing the existing Challenger 350 aircraft training program. The new Challenger 300 simulator was certified at Bombardier's Dallas Fort-Worth (DFW) Airport Texas facility by the Federal Aviation Administration (FAA) in May 2017 and is now ready for training. With six

Level D full-flight simulators, one flight training device, 21 multimedia, interactive classrooms, and numerous part task training devices, Bombardier's Dallas Training Centre can train up to 3,000 pilots and 280 maintenance technicians each year.

**Air China**, the flag carrier and one of the major airlines of the People's Republic of China, has selected inflight entertainment and connectivity (IFEC) solutions from **Panasonic Avionics Corporation (Panasonic)** for its fleet of Airbus A350 aircraft. Under the terms of the agreement, Panasonic will provide its industry-leading eX3 inflight entertainment for 10 Air China A350 aircraft. The first of these aircraft will be delivered in December 2017. By selecting eX3, Air China will offer a unique passenger experience that includes audio and video on demand, a content library that can offer up to 300 movies, 200 TV shows, games, music, a moving map, and much more. These A350 aircraft will also offer global connectivity services.

**Air BP**, the international aviation fuel products and service supplier, has extended its biofuel footprint in the Nordics with the supply of commercial jet biofuel (biojet) now available at Halmstad Airport, Sweden. The company has collaborated with Halmstad Airport (HAD/ESMT) and Swedish domestic airline, BRA (formerly Braathens Regional) to make this possible. The first batch was delivered to Halmstad Airport on June 29, and was successfully uplifted by BRA when it refueled its ATR 72-600 aircraft. It is available to all airlines that refuel at the airport, initially for a period of one year. This follows Air BP's successful introduction of biojet at Oslo Airport in January 2016. Air BP has since continued to work towards growing its biojet footprint in the region and has supplied airlines and airports on an ad-hoc basis at Stockholm Arlanda (ARN/ESSA), Stockholm Bromma (BMA/ESSB) and Göteborg Landvetter (GOT/ESGG).

The **International Air Transport Association (IATA)** has urged **Mexico** to adopt global standards for the management of its airport slots as opposed to the current slot system proposed by the country's Federal Economic Competition Commission (COFECE). IATA is concerned that Mexico's proposed system will not enable the country to maximise its air infrastructure, nor guarantee its burgeoning air industry's competitiveness.

The system proposed by Mexico differs from global standards in the following ways:

- Slots are auctioned off, which limits competition and discourages smaller operators from either entering or expanding in the marketplace. The danger is that without competition, fares may rise to the detriment of passengers.
- With the confiscation of 10% of existing slots at the busiest airport, carriers' route networks will be weakened, while also suffering financial penalties.
- Withdrawal of slots based on punctuality will not

necessarily improve the level of on-time operations and instead has the potential to further disrupt existing schedules when slot withdrawal is as the result of uncontrollable delays.

- Imposing a "use-it-or-lose-it" threshold of 85% is not consistent with the global standard of 80% utilization to retain a slot.

Where global standards and IATA Worldwide Slot Guidelines (WSG) are concerned, WSG ensures that individual airlines are able to operate their schedules under the same set of rules on all of the routes in their network, which in turn translates into consumer benefits through efficient and reliable operations.

According to Peter Cerda, IATA's Regional Vice President for the Americas: "The full implementation of WSG is needed to manage the precious capacity at the key Mexico City hub as well as other Mexican airports. WSG brings efficiencies that are critical for all airports—especially those with severe capacity constraints such as Mexico City. Aviation is vital to Mexico—contributing a million jobs and \$38 billion annually to the country's economy. The full and immediate implementation of WSG is critical to ensure that Mexico can benefit even more from aviation."

A year-long campaign has been launched by **Airlines for America (A4A)** and the **International Air Transport Association (IATA)** with a view to increasing baggage handling operations and reducing the number of mishandled bags.

Approximately 4 billion bags are carried by airlines on an annual global basis, with 0.43 percent failing to arrive with their owners. In an attempt to improve on this figure, the Industry has agreed to Resolution 753 whereby come June 2018, airlines have committed to being able to track a bag when it is accepted at the airport, loaded onto the aircraft, transferred to the arrival system or put into the transfer system for carriage by another airline. Airlines should also be able to share this tracking information with interline carriers as needed.

According to Andrew Price, IATA's Global Head of Baggage: "Arriving without a bag is a very frustrating experience for our customers. Over the last decade we have reduced mishandled baggage by 54% with improved processes. The next step is to realize the full benefits of baggage tracking to further improve performance. In the rare cases when a bag does not arrive with the passenger there will be much more information available to facilitate a quicker reunion. And the benefits don't stop there. Tracking bags will, enable proactive reporting, speed up aircraft readiness for departure, facilitate the automation of baggage processes and also reduce fraud." The baggage tracking campaign will enable carriers to ready themselves for the R753 June 2018 implementation deadline with a number of initiatives tailored to various stakeholders. Additionally, IATA is offering member airlines a readiness certificate to recognize them when they develop their implementation plan for R753.

INDUSTRY PEOPLE



Kelly Gray

- C&L Aerospace has hired **Kelly Gray** as Regional Parts Sales Manager for Corporate Aircraft covering the western region of the United States. Kelly has two decades of aerospace experience specializing in parts replacement, component repair and overhaul needs for corporate aircraft such as Challengers, Hawkers and more. His experience as a Sales and Service Program Manager for Heroux-Devteck and Component Overhaul Manager for Bombardier make him uniquely qualified to support C&L customers with their after-market parts and service needs.



Cornelius Dalm

- Spairliners GmbH has welcomed **Cornelius Dalm** as the new Head of Sales and Marketing. Effective June 12.. He succeeds **Fabrice Dumas** and took over the lead of the Sales and Marketing team. He will ensure the growth of the company, particularly in the European and American market, and expand the related sales and marketing activities, as well as contribute to the future strategy of Spairliners. Cornelius Dalm has been working for Lufthansa Technik AG for five years, most recently as Head of Contract Management in the Corporate Sales Department.



Sam Millikin

- PPG has named **Sam Millikin** global platform business director for aerospace sealants and packaging and a member of PPG's aerospace business leadership team. He succeeds **John Sands**, who retired after a 32-year career. Millikin began his PPG career in 1989 at the former La Porte, Texas, chemicals plant. He moved to the company's specialty coatings and materials business, holding assignments in optical products and silica products before becoming global sales and marketing development director for TESLIN substrate. Since joining

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**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

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PPG's aerospace business in 2013, he was the global business manager for packaging.



Gavin Simmonds

- AJW Group has promoted **Gavin Simmonds** to Chief Operations Officer following five years of success as General Manager of AJW Technique – the maintenance hub for the Group's component repair and overhaul service. Simmonds, whose promotion takes effect immediately, will report to AJW Group's President and CEO, **Christopher Whiteside**.

- JetBlue has announced several appointments to its leadership team. **Ursula Hurley** has been named Vice President, Structural Programs. The role was formerly held by **Steve Priest** prior to his appointment as JetBlue's Chief Financial Officer in February 2017. **Santiago Martello** will join the airline on August 2, 2017, as Vice President, Financial Planning and Analysis (FP&A). The role was previously held by **Tracy Lawlor**, now Vice President, Strategy and Business Development. **David Jehn** has joined JetBlue as Vice President, Operational Planning and Analysis. This role was previously held by **Glenn Cusano**, now Senior Vice President, Finance and Treasury.

AVITRADER  
AviTrader Publications Corp.

Suite 305, South Tower  
5811 Cooney Road  
Richmond, BC  
Canada V6X 3M1

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### Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-112	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	FPG Amentum	V2527-A5	3162	2007	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A320-200	FPG Amentum	V2527-A5	3316	2007	Q1/2018	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 1 6398118
A320-200	Fortress Investment Group	CFM56-5B4	1296	2000	Now	Sale / Lease	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
A320-200	ORIX Aviation	V2527-A5	2680	2006	Q4/2017	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 863 350 004
A320-200	ORIX Aviation	V2527-A5	1383	2001	Q1/2018	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 863 350 004
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	157	1996	Now	Sale / Lease	R. Rosser	Richard.Rosser@aerfin.com	+442921676296
A340-313	AerFin	CFM56-5C4	208	1998	Now	Sale	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	World Star Aviation Services	CFM56-3C1	24332		Now	Lease	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-220000
B737-400	Safair Operations	Combi	East Africa		Now	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	Daniel Cunningham	daniel.cunningham@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26	34705	2006	Q3/2018	Lease	Daniel Cunningham	daniel.cunningham@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26	34707	2006	Q3/2018	Lease	Daniel Cunningham	daniel.cunningham@orix.ie	+353 871774524
B737-800	Fortress Investment Group	CFM56-7B26	30160	2000	Q2/2017	Sale / Lease	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
B737-800	Fortress Investment Group	CFM56-7B26	35075	2007	Q2/2017	Sale / Lease	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
B737-800	Aersale	CFM56-7B26	30881	2002	Dec 2017	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	Fortress Investment Group	CF6-80C2B1F	32746	2003	Now	Sale / Lease	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
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
B757-200F	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
B767-300ER	Fortress Investment Group	PW4062	30563	2000	Q3/2017	Sale / Lease	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
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
ATR42-300	Regional One	PW120	51	1987	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ATR42-300	Regional One	PW120	57	1987	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-200ER	Regional One	CF34-3B1	7452	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ700	Regional One	CF34-8C5B1	10029	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164

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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
E170s	AerFin	CF34-8E			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-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) CF34-8C5/B1	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
(1) CF34-3B1	Now - Lease		David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
<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) CF6-80C2B5F	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CF6-80C2B7F	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) CF6-80C2B6F	Now - Sale / Lease				
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	



### 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) CFM56-5B1/P	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5B6/3	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) CFM56-7B22	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) CFM56-3B2	Now - Sale / Lease				
(1) CFM56-7B24	Now - Sale / Lease				
(1) CFM56-7B26	Now - Sale / Lease				
(1) CFM56-7B27	Now - Sale / Lease				
(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.				
(3) CFM56-7B-24	Now - Sale/Lease/Exch.				
(1) CFM56-7B-26	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				
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) PW121 (Dash 8)	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW121 (ATR)	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				

### 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
(1) PW2040	Now - Sale / Lease				
<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
(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) PW4056-3	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(2) PW4060-3	Now - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4158-3	Now - Sale / Lease		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>
(1) RB211-535E4	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(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) RB211-524	Now - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(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 884	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) V2527E-A5	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(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
(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,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
APS 2000, PW901A	Now - Sale/Lease/Exchange	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
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	rlewsley@logix.aero	+44.79.0021.8657
APU GTCP 331-9B, 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