

Weekly Aviation Headline News

WORLD NEWS

Emirates launches Mombasa services

Qatar Airways' first non-stop flight from Doha to Mombasa, Kenya landed at Moi International Airport, marking the airline's second gateway in Kenya. Qatar Airways flight QR1333, operated by an Airbus A320, departed Hamad International Airport (HIA) on Sunday 9 December at 02:30 and arrived at Moi International Airport at 08:40, where it was welcomed with a celebratory water cannon salute. On board the inaugural Qatar Airways flight to Mombasa, Qatar Airways Chief Flight Operations Officer, Captain Jassim Al-Haroon, was joined by the Kenyan Charge D'Affaires a.i. to the State of Qatar, Mr. Washington Oloo. The VIP delegation was greeted



The first E190-E2 for Air Astana.

Photo: Air Astana

Etihad launches Barcelona services

Etihad Airways has launched its first ever scheduled flights linking Abu Dhabi and Barcelona. The UAE national airline is celebrating the occasion in style by hosting a special event held at the historic Capella dels Angels, a sixteenth-century Gothic building which is now part of the Museu d'Art Contemporani de Barcelona (MACBA), attended by leading figures from the local government, diplomats, media, corporate partners and travel trade.

Prague Airport breaks another record

Since the beginning of the year, Václav Havel Airport Prague has serviced an average of 46,000 passengers every day. The busiest month was July with almost 1.9 million passengers. The largest number of passengers, a total of 1.7 million, travelled to London, where all six international airports have direct connections to Prague.

Kazakhstan's first E190-E2 jet

Air Astana takes delivery of new jet

Air Astana, the flag carrier of Kazakhstan, presented its first E190-E2 jet in a ceremony held in Astana. The airline will receive four additional E190-E2s next year, with the last of the five aircraft, leased by AerCap, being delivered in the final quarter of 2019. The Kazakhstan airline will start flying the new aircraft on domestic and Commonwealth of Independent States (CIS) routes later this month.

"All of us at Air Astana are pleased to receive our first E190-E2, and we look forward to a smooth entry into service and a simple transition for our pilots. We know Embraer's E-Jets well, and have high expectations for their new generation

aircraft in terms of economics, environmental impact, and levels of comfort and convenience for our customers," said Peter Foster, President of Air Astana.

"We are honoured to deliver our most advanced commercial aircraft to our good friends at Air Astana,"

said John Slattery, President & CEO, Embraer Commercial Aviation

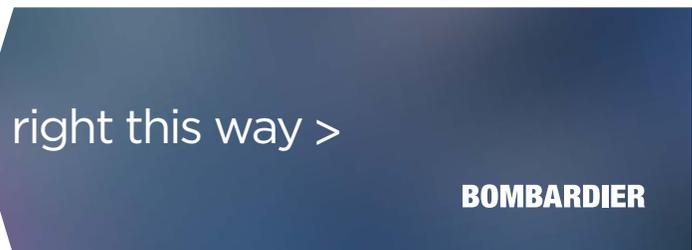
Air Astana's first E190-E2 features a "snow leopard" livery, designed and hand painted by Embraer in the 'Profit Hunter' style. Air Astana's snow leopard joins the now famous Eagle, Tiger, and Shark E2s with the distinctive 'Profit Hunter' nose art. For Air Astana however, the paint scheme is designed to draw global attention to the threat of extinction

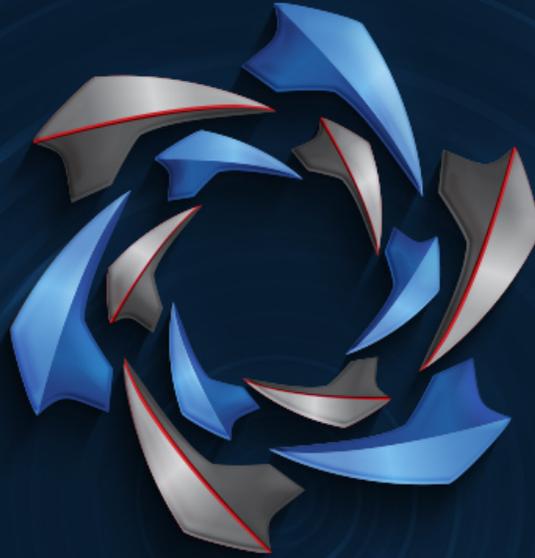
faced by the wild cat. The snow leopard is an official symbol of Kazakhstan and is native to the country's southern mountain ranges.

Foster continued. "Our passengers, staff, and in fact the whole of Kazakhstan will appreciate the amazing depiction of the snow leopard on our new jet. The snow leopard embodies the resilience and ambition of our nation, and we all strive to save these magnificent creatures from extinction and for posterity".

"We are honoured to deliver our most advanced commercial aircraft to our good friends at Air Astana", said John Slattery, President & CEO,

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Embraer Commercial Aviation. “For a manufacturer, there is no better reward than to see a customer’s business continuously growing with our products. Air Astana’s decision to embrace the E2 program is a further measure

of trust in Embraer and in the E-Jets family of commercial aircraft.”

The delivery marks the beginning of Air Astana’s fleet renewal. Currently the airline oper-

ates fleet of E190s aircraft, the first of which was delivered in 2011.

AIRCRAFT & ENGINE NEWS

AELS buys two Boeing 737-700s for disassembly

AELS (Aircraft End-of-Life Solutions) has bought two Boeing 737-700 aircraft (MSN 35135 and 35136, Reg. D-AHXE and D-AHXF) without engines. The aircraft were remarketed by Skytech-AIC on behalf of TUI, the seller. The two aircraft, only 11 years old, arrived on November 30 and December 1 at Twente Airport. These are the first two 737NGs acquired by AELS, representing the next step in its continues growth. In the coming months AELS will disassemble the aircraft according to the highest standards. The components will be returned to the aviation industry. They will be offered to operators, part brokers, PBH-providers and MROs for support of the still growing operational fleet of 737NGs. AELS buys aircraft and sells aircraft components for all types of aircraft. AELS is a fully accredited company (Aircraft Fleet Recycling Association (AFRA) for dismantling and recycling and ASA-100 (FAA AC 00-56) for component management).

Airbus delivers 100th A320 Family aircraft assembled in the U.S.

Airbus has delivered its 100th aircraft from the company’s U.S. Manufacturing Facility in Mobile, Alabama. The A320neo, serial number (MSN) 8580, was delivered to Frontier Airlines. The aircraft features two horses, Meadow & West, on its tail. Airbus’ Mobile facility is de-

livering four A320 Family aircraft per month and has delivered to eight U.S.-based customers thus far, including Air Lease Corporation, Allegiant Air, American Airlines, Delta Air Lines, Frontier Airlines, Hawaiian Airlines, JetBlue Airways and Spirit Airlines. Airbus has three other A320 Family production facilities around the world: Hamburg, Germany; Tianjin, China; and Toulouse, France.

ALC places one new Boeing 737 MAX 9 with Aeromexico

Air Lease Corporation has reported the lease placement of one new Boeing 737 MAX 9 aircraft on long-term lease with Aeromexico. Scheduled for delivery in fall 2019, the aircraft will feature LEAP-1B28 engines and deliver from ALC’s order book with Boeing. This 737 MAX 9 will join two Boeing 737-800s and three Boeing 787-9s cur-

Orders and deliveries – Boeing and Airbus

Airbus v Boeing: Orders and Deliveries					
November 2018 YTD					
Airbus			Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A320 Family	0	12	737	494	511
A330	301	533	747	14	6
A340	29	37	767	39	16
A350	36	81	777	34	43
A380	14	10	787	109	128
Total	380	673	Total	690	704

Source: Airbus

Source: Boeing

Airbus booked orders for a total of 43 aircraft in its single-aisle A320 and widebody A330 families during November, and provided 89 jetliners from across its A220, A320, A330, A350 XWB and A380 product lines during a month that included seven first-delivery milestones with international customers.

Boeing generated 51 orders in November including 40 737 MAX aircraft. Deliveries were for 79 aircraft through the month.

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rently on lease to Aeromexico, as well as a fourth 787-9 Dreamliner aircraft scheduled to deliver to the airline in spring 2019.

Royal Air Maroc welcomes first GENx-powered Boeing 787-9 aircraft

Royal Air Maroc (RAM) is celebrating the delivery of its first GENx-1B-powered Boeing 787-9 Dreamliner aircraft. RAM will eventually operate a fleet of nine GENx-powered B787 Dreamliners. “GE Aviation and RAM have developed a strong relationship over the last decades, providing engines and maintenance for the majority of the airline’s fleet and partnering on innovation and digital projects to enhance their operations,” said Chaker Chahrour, vice president and general manager of Global Sales and Marketing for GE Aviation.

MRO & PRODUCTION NEWS

GKN Aerospace announces new £32 million Global Technology Centre in Bristol

The Secretary of State for Business, Energy and Industrial Strategy, Greg Clark and the Chief Executive of GKN Aerospace, Hans Büthker together have revealed plans for GKN Aerospace’s new Global Technology Centre in the UK. The new centre – funded by a £17 million commitment from GKN Aerospace and a £15 million commitment from the UK Government, through the Aerospace Technology Institute – is expected to open in 2020. Once open the 10,000 m² facility will host 300 highly skilled engineers, and will include collaborative space for research and development with universities, the UK’s CATAPULT network and GKN Aerospace’s UK supply chain. The centre will focus on additive manufacturing (AM), advanced composites, assembly and industry 4.0 processes to enable the high rate production of aircraft structures. The GTC will maintain GKN Aerospace’s position at the forefront of technology development for the next generation of energy efficient aircraft. The facility will serve as a base for GKN Aerospace’s technology partnership in the Airbus’ “Wing of Tomorrow” technology programme as well as new additive manufacturing programmes. The Bristol centre joins a growing list of GKN Aerospace Centres of Technical Excellence around the world. Each centre has a unique technology focus – covering AM, thermoplastics and smart aero-engine systems – and is supported and linked by a clear digital strategy.

Avolon places 11 Boeing 737 MAX 8 aircraft with GOL



GOL will receive 11 Boeing 737 MAX 8 aircraft on lease from Avolon

Photo: AirTeamImages

Avolon, the international aircraft leasing company, has placed 11 Boeing 737 Max 8 aircraft from its orderbook with Brazilian airline, GOL. Delivery of the aircraft will commence in the second half of 2019. Felipe Campos, Avolon Head of Latin America, commented: “We are delighted to support GOL as they work creatively to accelerate their fleet renewal plans. Our relationship with the GOL team extends back to the earliest days of the airline and this transaction ensures that our partnership will continue well into the future. This addition of further 737 MAX aircraft to the GOL fleet will enhance efficiency and reliability and also allow the expansion of their route network. Our commitment to our customers is to have a product offering built around the latest and most technically advanced aircraft available in the market and the 737 MAX is a core part of that offering.”

TrueNoord leases fourth new ATR 72-600 to Wings Air of Indonesia

PT Wings Abadi, operating as Wings Air and a subsidiary of Lion Air Group, has taken delivery of its fourth new ATR 72-600 aircraft leased from TrueNoord, the specialist regional aircraft lessor. This is the culmination of a deal that has already seen TrueNoord integrate three aircraft into the Wings Air fleet in August, October and November this year, respectively. The aircraft are all provided on long-



Wings Air takes delivery of fourth ATR 72-600 aircraft from TrueNoord
Photo: TrueNoord

term operating leases in association with Transportation Partners and ATR. Financing is provided under TrueNoord’s recent term loan warehouse facility supported by Morgan Stanley, NORD/LB Norddeutsche Landesbank and Barclays. Legal services were provided by the London and Singapore offices of Milbank, Tweed, Hadley & McCloy LLP and Indonesian law firm Mochtar, Karuwán & Komar. Commenting at a convention for aviation finance in London, Anne-Bart Tieleman, CEO – TrueNoord, said “These are the first brand-new ATRs for TrueNoord and it has been an exciting experience for us over the past five months. These aircraft sow the seeds of our ultimate vision and long-term plan to build up a strong portfolio of young regional aircraft types with a good global spread and leased to experienced, market leading operators. Wings Air currently flies 270 routes across Indonesia mostly consisting of short-haul flights of less than one hour. Its fleet is exclusively comprised of propeller-based aircraft, allowing the airline to serve difficult routes and airstrips that only turboprop aircraft can service.”

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GAMECO re-delivers first Lufthansa A380 with new livery

GAMECO (Guangzhou Aircraft Maintenance Engineering Co) has successfully re-delivered an A380 to Lufthansa after performing a C4 check plus exterior painting. This is the first of four nose-to-tail aircraft inputs from Lufthansa. Norbert Marx, CEO / General Manager of GAMECO said: "We are very excited that Lufthansa selected us to perform this job on their flagship aircraft A380. When the first one is out there with its elegant new paint scheme, it will get a lot of attention. Lufthansa is a benchmark in the industry and with this cooperation we can expand our customer base and market share in the important European Market." GAMECO, established in 1989, is one of the largest and most capable MROs in Asia. It provides not only heavy maintenance and painting, but also line maintenance, component repair & overhaul,



GAMECO re-delivers Lufthansa A380 with new livery

Photo: GAMECO

landing gear repair & overhaul, material management, engineering service, ground support

equipment and technical training.

Virgin Galactic's manned SpaceShipTwo rockets into space and back



Sir Richard Branson and Virgin Galactic's first two astronauts

Photo: Virgin Galactic/Quasar Media

After taking off from the Mojave Desert in California, the Virgin Galactic SpaceShipTwo successfully reached an altitude of 82.7km, well beyond the altitude that space, or the thermosphere, begins at 80km, but below the

recognised 100km altitude, the Karman Line, where the Earth's atmosphere ends and outer space begins. It is understood that the rocket plane climbed to an altitude of approximately 10,000 meters (32,000 feet) under jet propul-

sion, after which the rocket was ignited, powering the aircraft for 60 seconds, enabling it to fly at 2.9 times the speed of sound. Sir Richard Branson's Virgin Galactic was formed in 2004 and this was the fourth test flight for a program which has been beset with delays, most notably after the fatal crash of VSS Enterprise, a SpaceShipTwo, which broke up during a test flight on October 31, 2014, killing the co-pilot and seriously injuring the pilot. Competitors in the 'commercial passenger space race' include Elon Musk's SpaceX and Jeff Bezos' Blue Origin, both of which have achieved a greater altitude with their aircraft, but neither of which have yet to launch manned flights into space. Thursday's Virgin Galactic flight carried two pilots and a mannequin named Annie who was there to represent a 'passenger'. Commenting on the event, Sir Richard Branson said: "Today we have shown Virgin Galactic can open space to the world." According to Sir Richard, the first 90-minute scheduled flights should begin in March, with Sir Richard Branson being one of the first passengers. Tickets for the flights cost US\$250,000 and it is understood that 600 have already been sold or deposits placed for them.

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First ANA A380 rolls-out of Airbus paint shop with unique livery

The first A380 for All Nippon Airways (ANA) has rolled out of the Airbus paint shop in Hamburg, Germany, bearing the airline's distinctive and unique Hawaiian Green Sea Turtle livery. ANA has firm orders for three A380s, becoming the first customer for the superjumbo in Japan. The airline will take delivery of the first A380 at the end of Q1 2019 and will operate the aircraft on the popular leisure Narita-Honolulu route. The three ANA A380s will be painted in a special livery depicting sea turtles which are native to Hawaii. The first aircraft is blue, the second will be green and the third orange. The ANA A380 livery is one of the most elaborate ever painted by Airbus. It took 21 days for the Airbus team to paint a surface of 3,600 m² using 16 different shades of color. The aircraft will now have completion of its cabin and enter a final phase of ground and flight tests in Hamburg, during which all cabin systems will be thor-



ANA's first A380 rolls out of the paint-shop

Photo: Airbus

oughly tested, including air flow and air conditioning, lighting, galleys, lavatories, seats and in-flight entertainment. In parallel, Airbus will also undertake advanced aircraft performance

tests before the plane flies back to Toulouse for preparation of its delivery and ferry flight.

Polish Air Force University adds Robinson R44s to fleet



Two R44 Raven helicopter for the Polish Air Force University

Photo: Robinson Helicopter

Robinson Helicopter Company has delivered two R44 Raven IIs to long-time Robinson dealer, PHU Polinar of Poland. On November 13th, PHU Polinar delivered the aircraft to the Polish Air Force University, marking the first acquisition of American helicopters to be used for military training in Poland. Founded in 1927, the Polish Air Force University is an accredited state-owned institution that offers undergraduate degrees for officers in the Polish military as well as commercial ratings for civilian students. According to PHU Polinar, the more than 70 Robinson helicopters successfully operating in Poland convinced the state the R44 is not only reliable but is the right vehicle for its flight training programs. Both R44s were equipped with a fully integrated glass cockpit featuring Garmin's GDU 1060 TXi, GTN 750 navigator, GTX 345 transponder with ADS-B In/Out and Spidertracks for real-time tracking.

MRO & PRODUCTION NEWS

Delta TechOps partners with Rolls-Royce to provide worldwide On-Wing Care™ Services

Delta TechOps has partnered with Rolls-Royce to provide worldwide On-Wing Care™ Services for various Rolls-Royce Trent engines. “This collaboration with Rolls-Royce expands our existing relationship and provides customers with round-the-world support from our expert field teams,” said Jack Arehart, V.P. — MRO Services. Under this agreement Delta TechOps will provide engine line maintenance support services at remote sites for Trent 700, Trent 800, Trent XWB, Trent 1000 and Trent 7000 operators. The services range from entire engine removal and install, to video borescoping, fan blade changes and main gearbox replacement. The Rolls-Royce On-Wing Care™ network ensures the highest-level of service in locations that are convenient to its customers. On-Wing Care™ rapid response services maximize aircraft engine operational availability, thereby minimizing potential impact to customer fleet schedules. In October 2015, Delta and Rolls-Royce signed a formal agreement for Delta TechOps to become an Authorized Maintenance Center for Rolls-Royce engines. Under the agreement, the airline provides engine services for the latest-generation Trent XWB, Trent 1000 and Trent 7000, in addition to the BR715, which had already been added to engine capabilities. To further enhance engine maintenance capabilities, Delta TechOps has invested in other major projects. This fall, the maintenance provider opened its new 127,000-ft² state-of-the-art engine shop, which enables Delta to perform maintenance on engines with the most sophisticated and advanced technologies. At the end of the year, Delta TechOps will also open the largest test cell, with its first engines testing in early 2019. When it opens, the new test cell will be capable of safely running a mounted, stationary engine at full power with 150,000 pounds of thrust.

UAE-based avionics provider Falcon Aviation Services joins Honeywell’s global channel partner network

Honeywell has confirmed United Arab Emirates-based Falcon Aviation Services as a member of its global channel partner network. The agreement covers the sale, installation and service of Honeywell avionics for Middle East-based helicopter operators. The arrangement between the two companies will augment the avionics service and upgrade options available to regional helicopter operators by offering a more localized repair and installa-

Boeing launches longest-range business jet with BBJ 777X



Boeing launches longest-range business jet, the 777-X

Photo: Boeing

Boeing Business Jets is launching the BBJ 777X, a new Boeing Business Jet model that can fly more than half way around the world without stopping. “Our most exclusive customers want to travel with the best space and comfort and fly directly to their destination. The new BBJ 777X will be able to do this like no other airplane before it, redefining ultra-long range VIP travel,” said Greg Laxton, head of Boeing Business Jets, at the bi-annual Middle East Business Aviation Association Show (MEBAA). Customers can choose between two models: the BBJ 777-8 and BBJ 777-9. The BBJ 777-8 offers the longest range of 11,645 nautical miles (21,570 km) and a spacious 3,256 ft². (302.5 m²) cabin. The BBJ 777-9 provides an even larger cabin measuring 3,689 ft² (342.7 m²), while still offering ultra-long range of 11,000 nautical miles (20,370 km). This model opens up almost unlimited interior design options to ensure ultimate comfort for long distance travel. To demonstrate the versatility of the airplane’s spacious cabin, BBJ unveiled interior concepts from three leading design firms: Greenpoint Technologies, Jet Aviation, and Unique Aircraft Design. Each concept shows how the BBJ 777X can be transformed to suit the tastes of any VIP customer.

Lufthansa Technik to supply components for 737 MAX of Eastar Jet



Eastar Jet Boeing737MAX

Photo: Eastar Jet

Korean low-cost carrier Eastar Jet has contracted Lufthansa Technik to supply components for its new fleet of Boeing 737 MAX aircraft. With six aircraft currently on order, Eastar Jet will receive its first two 737 MAXs by the end of 2018, with the remaining four aircraft following in mid-2019. Similar to the support for the airline’s Boeing 737NG fleet, the new Total Component Support (TCS®) agreement includes component maintenance as well as spare parts leasing through a component pool at Eastar Jet’s headquarters at Gimpo International Airport in Seoul. Likewise, the airline will be granted access to the corresponding spare parts pools at Lufthansa Technik.

MRO & PRODUCTION NEWS

tion for Honeywell equipment at Falcon Aviation Services' Abu Dhabi-based facilities. This will allow faster turnaround time for maintenance, repair and overhaul activities, which in turn can reduce helicopter downtime. There are currently 1,536 government or military-owned helicopters in operation in the Middle East, with an additional 202 commercial helicopters in private ownership across the region. The channel partnership between Falcon Aviation Services and Honeywell will see an improvement to the services available to these operators. Honeywell's Channel Partner Program offers a concierge-level service to its members, including dedicated sales and marketing support, exclusive access to technical experts, tailored product training, and other incentives, including integration and installation of Honeywell's latest technologies.

Leonardo S.p.A selects HEICO Component Repair Group as authorized repair center

HEICO Component Repair Group (Structures Division), a subsidiary of HEICO Corporation has been selected as an authorized service center. Under the agreement, HEICO Component Repair will perform modification and repair and overhaul of Embraer 170 and 175 fan cowls and air inlets (inlet cowls) by Leonardo S.p.A, the manufacturer of these parts. Vladimir Cervera, VP/GM of HEICO Component Repair Group, Structures Division commented "We are excited to partner with Leonardo to service Embraer E170 & E175 inlet and fan cowls as an OEM authorized service center. Leonardo's quality products, combined with HEICO's emphasis on customer satisfaction, ensures the highest level of support for our shared airline customers. HEICO's commitment to service, and Leonardo's exceptional product design, provide operators with a foundation for greater fleet control and continued operation."

IAI's Bedek Aviation Group and ATSG celebrate 70 full freighter conversions

IAI's Bedek Aviation group has concluded the 70th full freighter conversion for Air Transport Services Group. Over the past 25 years the cooperation of the two companies unfolded to encompass a major part of the global P2F conversions market. Bedek performed DC-8 short-to-long duct pylon modifications and JT8 engine overhauls and QEC components, and Bedek participated in the conversion program of B767-200 Passenger-to-Package-

Jet Aviation receives IS-BAH™ Stage 2 Safety Registration for 20 FBOs at MEBAA



Jet Aviation presents 20 IS-BAH™ Stage 2 Safety certificates

Photo: Jet Aviation

Jet Aviation has received International Standard for Business Aircraft Handling (IS-BAH™) Stage 2 Safety Registration from the International Business Aviation Council (IBAC) for 20 of its FBOs across EMEA and the Americas. The company intends to achieve IS-BAH™ Standard registration for its new Hawker Pacific and KLM Jet Center FBOs in 2019. IBAC Program Director for IS-BAH™, Terry Yeomans, presented 20 IS-BAH™ Stage 2 Safety Certificates to Jet Aviation at its MEBAA chalet in Dubai. "This remarkable achievement demonstrates Jet Aviation's ongoing commitment to the highest safety standards for its customers and employees," said Yeomans. Based around a safety management system that models the structure and format of the International Standard for Business Aircraft Operators (IS-BAO™), IS-BAH™ establishes criteria for best handling systems, processes and practices to ensure FBOs meet rigorous safety and security standards.

SR Technics and VAS Aero Services expand materials supply program with the addition of airframe components

MRO service provider SR Technics has signed an eight-year partnership with one of the aftermarket's leading suppliers, VAS Aero Services. Under the agreement, VAS will provide aircraft components exchange and repair services for SR Technics involving multiple Airbus and Boeing fleets. The new partnership marks the first major material supply partnership with a non-OEM company for the SR Technics' business unit Component Services. By covering service-level guaranteed exchange services, repair services, and leasing services,



SR Technics and VAS Aero Services sign eight-year partnership agreement
Photo: SR Technics

the collaboration will enable SR Technics to continue to provide cost-effective and reliable solutions to its airline customers. VAS has been supporting SR Technics in engine services for several years. The expansion of their collaboration into the Component Services business aims to leverage the strengths of both companies.

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Freighter configuration, which was followed by the 767-200BDSF Passenger-to-Special-Freighter (SF) conversion program. In 2009 Bedek started the B767-300BDSF conversion program, in partnership with Mitsui of Japan, under which over 60 aircraft have already been converted – most of them for ATSG, with the 767-300BDSF conversion program continuing at full steam ahead.

TAP Portugal signs GS LA for CFM LEAP-1A engines

Portugal’s national carrier, TAP, and CFM have signed a General Support License Agreement (GS LA) for maintenance activities of LEAP-1A engines. Under the terms of this agreement, TAP Portugal becomes part of the maintenance, repair and overhaul (MRO) network for LEAP-1A engines and will also benefit from CFM’s expertise in training. This GS LA will allow TAP to initiate the process for LEAP-1A maintenance activities. TAP has been a CFM customer since 1990, operating a large fleet of A320 aircraft family. In 2016, the airline ordered 79 LEAP-1A engines to power its new fleet of 37 Airbus A320neo/A321neo aircraft and took delivery of the first three aircraft earlier in 2018.

flydubai renews agreement with Joramco

Joramco, the Amman-based MRO and the engineering arm of Dubai Aerospace Enterprise DAE, and flydubai have successfully renewed an agreement to provide the carrier with heavy maintenance solutions for its fleet of Boeing 737 aircraft. Under this agreement Joramco will perform up to 45 C checks and EIS checks from January 2019. In addition, Joramco will perform avionics and cabin modifications including broad-band modifications. “In the past five years, Joramco has played an important role in our operations by fulfilling our MRO requirements,” said Mick Hills, Senior Vice President, Engineering and Main-

Rolls-Royce signs TotalCare® contract for MEA aircraft



Rolls-Royce and MEA sign TotalCare® contract

Photo: MEA

As part of its wide-body fleet renewal, the Lebanese carrier Middle East Airlines – Air Liban (MEA) has decided to purchase four new and two option Airbus A330-900neos powered by Rolls-Royce Trent 7000 engines due to deliver in 2021. Rolls-Royce has signed a contract with MEA to provide support for the Trent 7000 engines powering its new Airbus A330-900neo fleet. The contract covers long-term engine maintenance services, throughout the operation of the engine with MEA, the purchase of spare engines and supply of parts. The contract was signed during the Lebanon-UK Business and Investment Forum in London. Rolls-Royce will deliver the latest engine in its Trent range, the Trent 7000, along with its flagship TotalCare® support service. The Trent 7000 is part of the Trent family that has now accumulated more than 125 million engine flying hours.

tenance at flydubai. “We look forward to seeing our partnership strengthen with this latest agreement as our fleet continues to grow.” Dubai-based flydubai has created a network of more than 85 destinations and over the next decade the airline will see its fleet grow by up to 296 aircraft. It currently operates a single fleet-type of 58 Boeing 737 aircraft. The airline placed the largest single-aisle aircraft orders in the region at the 2013 and 2017 editions of the Dubai Airshow.

AEI receives Transport Canada approval for CRJ200 SF

Aeronautical Engineers (AEI) has received Transport Canada approval for the AEI CRJ200 SF passenger-to-freighter conversion. The Transport Canada approval (SA18-130) allows for the operation of Canadian registered CRJ200 SF freighters. AEI received the original FAA STC for the CRJ200 SF at the end of 2016 and in May of this year received EASA approval. Currently, AEI has over 45 firm orders and commitments for the freighter. Since certification, AEI has delivered 10 CRJ200 SFs and will

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redeliver the 11th overall later this month. The AEI CRJ200 SF provides a payload of up to 14,574 lbs. (6,611 kg), depending upon the specific aircraft model. The conversion comes with a large 94" x 70" Main Cargo Door and with an ANCRA Cargo Loading System capable of carrying (8) 61.5" x 88" Containers/Pallets, P1 to P8.

Bahamasair signs three year Global Maintenance Agreement with ATR

Caribbean airline Bahamasair has become the latest airline to select ATR's Global Maintenance Agreement (GMA) contract. The GMA covers the full Bahamasair fleet, which is composed of three ATR 42-600s and two ATR 72-600s. The contract covers Standard Exchanges, Line Replacement Unit (LRU) repairs and Propeller repairs. Bahamasair becomes the fourth airline in the Caribbean to choose the GMA and this reflects the quality and comprehensiveness of ATR's maintenance service in the region.

FINANCIAL NEWS

Bombardier confirms it remains on track to achieve its 2020 financial objectives

Bombardier has released its 2019 business unit guidance and confirmed that it remains on track to achieve its 2020 financial objectives. The 2019 guidance reflects the anticipated closing of the sale of both Business Aircraft's flight and technical training activities and the Q Series aircraft program as of September 30, 2019. For 2019, Bombardier is targeting revenues of US\$18 billion or more, representing a year-over-year increase of approximately 10% over 2018 guidance. This growth is expected to be driven by: the entry-into-service of the Global 7500 aircraft, which is sold out through 2021; execution on Bombardier's strong US\$34-billion rail backlog, which covers more than 80% of Transportation's targeted 2019 and 2020 revenues; and an increased focus on aftermarket services across the portfolio. Aftermarket revenues are estimated to grow from approximately US\$3.5 billion in 2018 to approximately US\$4.0 billion in 2020 as the Company continues to optimize its aftermarket and services operations, leveraging its large installed base which includes over 100,000 rail cars, more than 4,700 business jets and approximately 1,250 regional jets. Profitability is anticipated to grow faster than the top line and is expected to be driven by solid conversion on revenue growth and the strategic reshaping

Threat of jet repossession sees Avianca Brazil file for bankruptcy protection



Avianca

Photo: AirTeamImages

Brazil's fourth-largest carrier, Avianca Brazil, has cited the threat of repossession of aircraft as the reason why it had filed for bankruptcy protection, fearing that such an action would see it unable to continue operations. Currently 50 of its 58 aircraft are leased and recent negotiations with lessors have failed to find any common ground. Airastle has confirmed in a disclosure with the U.S. Securities and Exchange Commission that it was moving to repossess 11 aircraft – one Airbus A330-200 and 10 A320s – on lease to Avianca Brazil. In return, Avianca Brazil is seeking legal protection to block the move. For the time being, the São Paulo-based airline will continue to operate 'as normal'. However, part of the reason for Avianca Brazil's financial woes comes from having to use the U.S. dollar for much of its outgoings such as fuel, which has risen in price, while generating revenue in more-volatile currencies such as the Brazilian real and the Argentinian peso, which have not performed well. The struggling airline has made it clear that Brazil's aviation regulator, ANAC, could force it to stop issuing tickets to passengers while it resolves current problems, a move that "would dramatically affect (its) cash flow." ANAC said in a statement that it had not yet been informed of the bankruptcy filing and was asking Avianca Brazil for clarifications about any possible impact on passengers. Avianca Brazil is owned by Synergy Group, which also controls Avianca Holdings SA, a publicly listed airline based in Colombia. Shares in Colombia's Avianca fell as much as 25 percent as a result of Avianca Brazil's filing, before later recovering to a two percent drop.

of Commercial Aircraft. EBITDA before special items is targeted to grow by approximately 30% over 2018 guidance to a range of US\$1.65 billion to US\$1.80 billion, while EBIT before special items is targeted to increase by approximately 20% over 2018 guidance to a range of US\$1.15 billion to US\$1.25 billion. From a free cash flow perspective, 2019 is expected to mark the transition from a heavy investment cycle to a strong growth and cash generation cycle. Sustainable capital expenditures are projected to decrease to approximately US\$800 million or less on an annualized basis, which represents a decrease of approximately 50% from the previous five-year average. On a normalized basis, before one-time items, Bombardier estimates free cash flow in the range of US\$250 million to US\$500 million

for 2019. One-time items that are expected to impact free cash flow in 2019 include; a US\$250-million charge for the previously announced restructuring; and a working capital contingency of US\$250 million largely associated with the intense ramp-up of the Global 7500 program. Free cash flow including these one-time items is targeted to be breakeven plus or minus US\$250 million, resulting in an estimated cash on hand exceeding US\$3.0 billion by year end. Along with announcing its 2019 business unit guidance, Bombardier reaffirmed its 2020 objectives of revenues in excess of US\$20 billion, EBITDA before special items over US\$2.25 billion, EBIT before special items over US\$1.6 billion and free cash flow between US\$750 million and US\$1 billion. In addition to generating strong cash flow

FINANCIAL NEWS

from operations, Bombardier anticipates ending 2020 with strong liquidity, including more than US\$3.5 billion of cash on hand and a significantly improved leverage ratio.

MILITARY AND DEFENCE

Boeing on contract for second Japan KC-46 Tanker

The U.S. Air Force has exercised the option for the Japan Air Self-Defense Force's second Boeing [NYSE: BA] KC-46 tanker through the Foreign Military Sale (FMS) process. Boeing was awarded the initial FMS contract for Japan's first KC-46 aircraft and miscellaneous logistics services in December 2017 following the Japan Ministry of Defense's KC-X aerial refueling competition. The KC-46 is a multirole tanker designed to refuel all allied and coalition military aircraft compatible with international aerial refueling procedures and can carry passengers, cargo and patients. Boeing began developing the KC-46A Pegasus tanker for the U.S. Air Force in 2011 and is assembling the 767-derivative aircraft at its Everett, Wash., facility.

Lithuanian Air Force renews Dauphin HCare Infinite contract

The Lithuanian Air Force (LAF) has renewed its HCare Infinite material management contract for its fleet of three Dauphin AS365 N3+ search and rescue (SAR) helicopters following achievement of 97% average fleet availability over a three-year period. These helicopters entered service performing SAR missions in 2015 with a three-year full warranty and Airbus' commitment to maintaining at least an 80% fleet availability rate. Lithuania was one of the first customers to choose HCare Infinite, Airbus' most comprehensive level of HCare material management services. The terms require Airbus Helicopters to guarantee the operational availability of LAF's Dauphin fleet, including technical support and supply of spare parts, tools and consumables.

Embraer successfully completes KC-390 troop unloading and evacuation tests



Embraer KC-390

Photo: Embraer

Embraer has successfully completed the troop unloading, evacuation by hatch and evacuation tests through the front and rear doors of the KC-390 multi-mission medium airlift recently held at Brasília Air Force Base, in Brazil. The tests complied with the requirements for achieving the Final Operational Capability (FOC), which is the subject of the final military certification of the aircraft, due to occur in the last quarter of 2019. The tests were supported by the Brazilian Air Force as well as the Brazilian Army and involved approximately 370 military personnel. "By completing this important stage of the testing campaign toward final military certification with excellence, the KC-390 demonstrates compliance with the industry's most stringent operating and safety standards," said Walter Pinto Junior, vice-president of the KC-390 Program. Embraer KC-390 is a tactical airlift designed to set new standards in its category while presenting the lowest life-cycle cost of the market. It can perform a variety of missions such as cargo and troop transport, troop and cargo air delivery, aerial refueling, search and rescue and forest fire fighting.

Through the contract, LAF has direct access to Airbus Helicopters' parts inventory in Šiauliai, Lithuania, as well as the Airbus parts-by-the-hour pool – a dedicated high-availability pool located in Les Florides, Marignane, France. In addition, a dedicated technical representative is embedded on LAF premises working closely with the Airbus Customer Support Manager in Marignane. Aircraft performance is measured on a daily basis.

Lockheed Martin licenses IFS applications to service assets for US\$3.5 billion US Army contract

IFS, the global enterprise applications company, has signed a contract with Lockheed Martin for 2,600 user licenses of IFS Applications™ modules for supply chain management, warehouse management, purchasing and other functionality. IFS Applications software will be a key tool for Lockheed Martin as they deliver on a seven-year,



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MILITARY AND DEFENCE

US\$3.5 billion contract to globally sustain more than 300,000 fielded Training Aids, Devices, Simulators and Simulations (TADSS), including live-fire ranges and instrumentation systems in support of the US Army TADSS Maintenance Program (ATMP) contract. IFS Applications will be used to ensure that materials, parts and resources are available to sustain these assets. As part of a subsequent phase, IFS will provide powerful scheduling capabilities for mobile technicians servicing the assets.

Bundeswehr orders seven H145 search and rescue helicopters

The Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support (BAAINWBw) has ordered seven H145 helicopters to replace the German Armed Forces' (Bundeswehr) obsolete Bell UH-1D search and rescue fleet. The aircraft will be delivered in 2020 and will be stationed at the sites in Niederstetten, Holzdorf and Nörvenich. Airbus Helicopters will also be responsible for logistics support, repair, and maintenance of the helicopters. According to an agreement with the Federal Ministry of Transport, the Bundeswehr is also responsible for search and rescue operations in the event of aircraft accidents on German territory. It therefore maintains a fleet of search and rescue helicopters on permanent standby; these helicopters are also available for use in national disaster management operations. The Bell UH-1D model currently in use by the Bundeswehr first entered into service in the early 1970s.

INFORMATION TECHNOLOGY

MJet GmbH of Austria has become the first ACJ319 operator to sign up for Skywise, enabling it to integrate its own operational, maintenance and aircraft data into the **Skywise** platform. MJet will store, access, manage, and analyze selected Airbus data together with its own data and global benchmarks without the need for additional infrastructure investments. This service will provide MJet new insights at aircraft, company and global level while allowing it to enhance its operations by improving operational reliability, reducing operational interruptions and identifying efficiencies, cost savings and enhanced revenue opportunities. MJet will share its Airbus operating-data and in return access the platform to benefit from other A319 operators' aggregate aircraft reliability fleet data. MJet will also work with Airbus to further develop product and support services specifically for



Global passenger traffic results for October showing that demand rose 6.3% compared to October 2017 Photo: IATA

European carriers' October demand climbed 7.5% over October 2017, which was the strongest growth among regions and well up on the 5.3% increase for September. Capacity rose 7.0% and load factor edged up 0.4 points to 85.2%, highest among regions.

Asia-Pacific airlines' traffic rose 5.8% compared to the year-ago period, up from 5.4% year-over-year growth in September. Capacity climbed 5.4% and load factor rose 0.3 points to 78.9%.

Middle East carriers experienced a 4.4% rise in demand in October compared to last year, slowest among the regions for the seventh time in 12 months. It was, however, an increase over the 3.3% increase in September. Capacity increased 6.4%, and load factor slid 1.3 points to 69.8%, lowest among regions.

North American airlines' traffic climbed 5.6% in October compared to the year-ago period, up from 4.9% growth in September. Strong momentum in the U.S. economy is helping to drive robust international demand. Capacity rose 3.7% and load factor surged 1.4 points to 80.4%.

Latin American airlines were the only carriers to experience a slowdown in growth as demand rose 5.9% versus 6.3% in September. Capacity climbed 9.1%, and load factor dropped 2.4 points to 80.4%.

African airlines' traffic grew 6.8% year-on-year in October, up from 6% annual growth in September. The upward trend in passenger demand remains strong notwithstanding challenges in the economic backdrop of the continent's largest economies, Nigeria and South Africa. Capacity rose 5.5%, and load factor climbed 0.9 points to 70.3%.

ACJ operators. Skywise provides all users with a single access-point for their enriched data by bringing together aviation data from multiple sources, across the industry, into one secure platform. The more data that airlines share into the Skywise platform, the more accurate the predictions and models for all connected. All data is anonymized to ensure data confidentiality. More than 190 Airbus Corporate Jets are in service around the world, flying on every continent, including Antarctica.

Commsoft has released that Spanish airline **Albatar** has chosen to support its airline

operations with OASES, Commsoft's MRO IT system. Albatar is a privately owned Spanish airline, founded in 2010 by Italian and British entrepreneurs from the tourism and transport sectors to provide on-demand flight services in collaboration with major Spanish, Italian and other European tour operators. Based in Palma de Mallorca, Albatar operates mainly charter flights from its principal bases of Palma de Mallorca, Milan Malpensa and Milan Bergamo, as well as seasonal services from Lourdes. The fleet to be supported by OASES will initially include four Boeing 737-800 aircraft. Renowned for its technical sophistication as well as its intuitive user interface, OASES is structured

INFORMATION TECHNOLOGY

in a modular format to provide maximum flexibility and scalability and Albastar has opted for the Core, Airworthiness, Materials, Planning and Production modules with an option to add the Line Maintenance Control module at a later date. All modules will be accessed through Commsoft's Private Cloud service, avoiding any need for the airline to invest in new hardware.

Technology provider **Sabre Corporation** has announced that Taiwan's flag carrier, **China Airlines**, has successfully implemented its flight operations management solution, Sabre AirCentre Movement Manager. A partner of Sabre for over twenty years, the next-generation solution will enable China Airlines to improve daily flight operations, continue to provide reliable service, and contribute to enhancing the traveler experience. In response to the country's growing demand for air travel, China Airlines is committed to streamlining its operations and to driving customer centrality. By implementing Sabre's fully integrated Movement Manager solution, the carrier can enjoy nominal service disruptions, react swiftly to flight irregularities and improve on-time performance through a more comprehensive overview of flight movement. This technology will also contribute to reducing operating costs for China Airlines and help to capitalize staff productivity.

OTHER NEWS

ENAV (the Italian Air Navigation Service Provider) and the **International Air Transport Association (IATA)** have presented the first edition of the Italian National Airspace Strategy. Air travel is set to grow 50% across Europe over the next 20 years. The goal of the air traffic management (ATM) network in Italy is to service this demand. Airlines and ENAV have joined forces to continue the ongoing modernization of the network, while ensuring safety, improving environmental performance, and reducing costs and delays. Successful airspace and ATM modernization is expected to create significant benefits for Italy, including an extra €27 billion (US\$30.5 billion) in annual GDP and 95,000 new jobs by 2035. The Italian National Airspace Strategy initiative was jointly developed by IATA and ENAV with the collaboration of Alitalia and Assaeroporti. The strategy includes a range of initiatives on airspace modernization jointly agreed by key air transport participants. This will ensure continuous evolution of the Italian aviation system and contribute to the national economy, as well as the efficiency of the Eu-



Photo: Emirates Flight Training Academy

Aviation engineering and maintenance company **Commsoft** has signed a contract for its MRO IT system, OASES. The deal was signed with the recently launched **Emirates Flight Training Academy (EFTA)**, located at custom-built premises at Al Maktoum International Airport in Dubai. OASES has been supporting the prestigious flight training academy which began operations in Dubai South in November 2017. The contract covers five key modules of the OASES system: core, airworthiness, planning, inventory and production. These have been implemented on Commsoft's private cloud for optimum security and customer care. EFTA recently received its CAR M Subpart G continuing airworthiness management organization and CAR 145 maintenance organization approvals (ref CAMO/0007/18 & UAE.145.0073) from the UAE General Civil Aviation Authority which allows EFTA to manage and carry out the maintenance on the aircrafts in-house. OASES support is being progressively rolled out across the fleet of twenty-two Cirrus SR22 G6 aircraft and five Embraer Phenom 100EV Very Light Jets that are being used to train cadets in EFTA's ab-initio flight training programme.



Airbus and Royole Technology signing ceremony

Photo: Airbus

Airbus China Innovation Centre (ACIC) has signed a Memorandum of Understanding (MoU) with **Royole Technology** – a global pioneer in flexible displays, flexible sensors and foldable smartphones. The two parties will collaborate to develop applications that implement flexible electronic technologies in cabin environments and investigate the possibilities for commercial cooperation. Airbus has been dedicated to design and manufacture aircraft that provide a better cabin experience for passengers. By investigating the use of flexible displays and flexible sensors in the cabin, Airbus plans to cooperate with Royole Technology by building a futurised, digitalised and personalised cabin to further improve the cabin environment, cabin safety and energy saving. Based in Shenzhen, Airbus China Innovation Centre is the first Innovation Centre set up by Airbus in Asia. Its mission is to fully leverage local advantages including innovative talents, partners and the eco-system, and combine this with Airbus' expertise in aerospace to explore breakthroughs in technologies, business models and new growth opportunities. ACIC is now fully operational, with the official office opening ceremony due to take place in early 2019.

OTHER NEWS

ropean and global air transport system. ENAV has airspace modernization at the heart of its activities. Free Route Airspace is already a reality in Italian airspace, reducing fuel consumption, CO2 emissions and costs. The company is one of the best in Europe for on-time performance. Roberta Neri, ENAV CEO stated: "Customers are at the center of our activities and we highly value this cooperation with IATA, Alitalia and Assaeroporti to support the safe and efficient growth of the air transport sector in Italy, providing benefits to passengers and the overall economy while creating value for all stakeholders involved. I firmly believe that this initiative is just a starting point and will attract additional airlines, airports and aviation actors. Under the steering and oversight of the national authorities and our Regulator, ENAC, we can work together to ensure the long-term success of the aviation system in Italy". Rafael Schwartzman, IATA's Regional Vice President for Europe, said, "Italy is a vital and popular air transport market—the fourth biggest in Europe—so planning for the future is crucial. Our research shows that air traffic management performance is critical to improve the growth and efficiency of the economy. ENAV's leadership in working with airlines and airports on an Italian National Airspace Strategy is therefore hugely significant. Our close partnership with ENAV will ensure that Italian airspace is optimized, bringing substantial economic benefits to the country." Alessandro Cardi, Deputy Director General of ENAC said, "ENAC is looking at this initiative very positively and is in favor of any agreements that derive from it. The shortage of capacity experienced this summer is a warning that puts in perspective the need for activities to be brought forward by all the actors of aviation system. In the near future the aviation system will need to deliver more and more capacity, and this will only be possible if a high level of cooperation between air service providers, carriers, and airport operators is established. ENAC will support any initiative able to realize such cooperation."

HAECO Xiamen, a member of the **HAECO Group**, has signed a collaboration agreement with **Xiamen Blue University (XMCU)**. The agreement formalizes co-operation between the two organizations in developing talented individuals for the aircraft maintenance industry.

Students who enroll in the joint XMCU-HAECO Xiamen program will receive basic skills training in aircraft maintenance at the HAECO Xiamen Technical Training Centre over the course of their three-year academic studies at XMCU. This will give them exposure to the aircraft maintenance industry and upon graduation,



Delta is updating its service and support animal policy

Photo: AirTeamImages

Effective Dec. 18, **Delta** is updating its service and support animal policy. The enhancements introduce a ban on service and support animals under four months of age regardless of flight length, as well as a ban on emotional support animals on flights longer than eight hours. "We will continue to review and enhance our policies and procedures as health and safety are core values at Delta," said John Laughter, Senior Vice President – **Corporate Safety, Security and Compliance**. "These updates support Delta's commitment to safety and also protect the rights of customers with documented needs – such as veterans with disabilities – to travel with trained service and support animals." Delta's updated policy follows an 84% increase in reported incidents involving service and support animals 2016-2017, including urination/defecation, biting and even a widely reported attack by a 70-pound dog. The updated support and service animal age requirement aligns with the vaccination policy of the CDC, and the eight-hour flight limit for emotional support animals is consistent with the principles outlined in the U.S. Department of Transportation's Air Carrier Access Act. As a result of the policy changes, customers ticketed on or after Dec. 18 will no longer be permitted to originate travel with emotional support animals on flights longer than eight hours and will no longer be permitted to originate travel with service and support animals under four months of age regardless of flight length. Customers with tickets purchased prior to Dec. 18, who have already requested to travel with an emotional support animal will be allowed to travel as originally ticketed. Regardless of booking date, emotional support animals will not be accepted on flights longer than eight hours on or after Feb. 1. Additionally, service and support animals under four months of age will not be accepted on flights of any length on or after Feb. 1. Customers will be contacted by Delta's Reservations and Customer Care teams to adjust reservations if the policy update impacts their travel plans.



AVIAA

Photo: Jetex Dubai FBO Terminal

AVIAA, the international group purchasing organisation (GPO) for business aviation is expanding its presence in the Middle East with the signing of a new preferred supplier partnership with **Jetex**, a leading international ground handling specialist in the region. The partnership commences with exclusive savings on full business aircraft handling, through select FBOs in Jetex's global network. AVIAA Business Development Director Matt Smith signed the partner agreement with Adel Mardini, CEO and President of Jetex flight support, at its flagship VIP Dubai South, Dubai World Central Airport FBO. The agreement opens up a wealth of savings for AVIAA members, located primarily in the US and Europe, when using Jetex FBOs in the Middle East and selected European locations, including Paris, Barcelona, and Rome.

PASSENGER STATISTICS - NOVEMBER

• **WestJet** announced November 2018 traffic results with a load factor of 81.0%, a decrease of 1.4 points year over year. Traffic increased 3.1% year over year, while capacity grew 4.9% over the same period. WestJet welcomed an additional 33,000 passengers in November, a year over year increase of 1.7%. Year to date traffic growth continues to outpace capacity additions.

• **Norwegian** has reported strong passenger growth as it carried almost 2.9 million passengers in November, an increase of 14% compared to the same month in the previous year. The total traffic for November increased by 26%, driven by a 34% capacity growth. The load factor was 78.8%, down 4.9 points compared to November 2017.

• **Turkish Airlines** has reported that the total number of passengers carried in November 2018 increased by 4% compared to the same month in 2017, reaching 5.5 million passengers. The load factor reached 81.4%, an increase of 2.0 points compared to the previous year. Cargo/mail volume continued its double-digit growth trend, increasing by 25% compared to the same period in 2017. The main contributors to the increase were N. America +45%, Africa +32%, the Far East +23% and Europe +21%.

• The **International Air Transport Association (IATA)** has reported global passenger traffic results for October showing that demand rose 6.3% compared to the same month last year. This marked a rebound from 5.5% growth re-

corded in September, which was an eight-month low. Capacity also grew 6.3% and load factor was flat at 81.1%, matching last year's record for the month.

October international passenger demand rose 6.3% compared to October 2017, up from 5.1% growth in September. Airlines in all regions recorded gains. Total capacity climbed 6.1%, and load factor increased 0.1 percentage point to 79.8%.

• **Southwest Airlines** has reported its November statistics. The Company reported that traffic in November 2018 increased 4.9% compared to November 2017 and capacity increased 6.5%. The November 2018 load factor was 84.5%, slightly down compared with 85.8% in November 2017.

• **Hawaiian Airlines** has welcomed more than 937,000 guests in November 2018, a decrease of 0.8% over the same period last year. Total traffic increased 2.8% on an increase of 5.0% in capacity. Load factor decreased 1.8 points to 84.1% compared to the same period in 2017.

• **United Airlines (UAL)** has reported November 2018 operational results. UAL's November 2018 consolidated traffic increased 7.1% and consolidated capacity increased 5.5% versus November 2017. UAL's November 2018 consolidated load factor increased 1.2 points to 83% compared to November 2017.

OTHER NEWS

students will receive higher diplomas from XMCU and training certificates from HAECO Xiamen. The integrated program will fast-track the process of developing high-quality aircraft maintenance mechanics by six months. The partners will continue to refine the program's curriculum, assessment criteria, and develop student recruitment plans.

INDUSTRY PEOPLE

• **David L. Cunningham**, president and chief executive officer of FedEx Express, will retire effective December 31, 2018. **Raj Subramaniam**, currently executive vice president, chief marketing and communications officer of FedEx Corporation, will succeed Cunningham effective January 1, 2019. Cunningham began his FedEx career in 1982 in operations at the FedEx Express World Hub in Memphis, Tenn. Over his more than 36-year career, he held numerous leadership positions across the FedEx Express operating company in multiple regions, including chief operating officer and president – international, FedEx Express Asia Pacific chief financial officer, and regional president of



Photo: Prague Airport Terminal 2

Václav Havel Airport Prague has released that the number of serviced passengers per year had reached 16 million on Wednesday December 12. This confirms the current trend that Prague Airport has been growing faster than the European average of airports in the same category. By the end of the year, the number of passengers serviced at Prague Airport is estimated to be 16.8 million, which means a 9% increase compared to 2017. The airport is expected to experience further growth in 2019. Since the beginning of the year, Václav Havel Airport Prague has serviced an average of 46,000 passengers every day. The busiest month was July with almost 1.9 million passengers. The largest number of passengers, a total of 1.7 million, travelled to London, where all six international airports have direct connections to Prague. Over the long term, Prague Airport has been among the fastest-growing airports in Europe in the 0– 25 million-passenger category. For example, for the third quarter of 2018, the airport recorded a 9.3% growth in the number of serviced passengers, while the European average over the same period was 5%. Prague Airport has responded to this trend by investing in various development projects. “Next year, we are planning to open new check-in counters in Terminal 1 and a brand new check-in island in Terminal 2. We will finish the redevelopment of aircraft parking stands in pier B, where we will also modernize two departure gates. We will also start reconstruction and expanding our baggage sorting facility,” said Vaclav Rehor, Chairman of the Board of Directors at Prague Airport.

INDUSTRY PEOPLE



David L. Cunningham, Raj Subramaniam and Brie Carere

the Asia Pacific region. Subramaniam has been with FedEx for more than 27 years and has held various executive level positions in several of its operating companies and international regions. He began his career in Memphis and subsequently moved to Hong Kong, where he oversaw marketing and customer service for the Asia Pacific region. Subramaniam then took over as president of FedEx Express in Canada before moving back to the U.S. as senior vice president of international marketing. He was then promoted to executive vice president of marketing in 2013 at FedEx Services, prior to being named executive vice president and chief marketing and communications officer at FedEx Corporation in 2017. **Brie Carere**, a more-than-17-year FedEx veteran, will succeed Subramaniam as executive vice president, chief marketing and communications officer of FedEx Corporation.



Anne Rigail

- Subsequent to the proposal of **Benjamin Smith**, CEO Air France-KLM, and the approval of the Air France-KLM Board of Directors, the Air France Board of Directors has appointed **Anne Rigail** as CEO of Air France, following their meeting on December 12, 2018. Previously EVP Customer at Air France, Anne Rigail will assume her new role as CEO Air France on December 17, 2018 and will replace Benjamin Smith, who was appointed acting CEO of Air France through the end of 2018.

- Airbus has appointed **Alberto Gutiérrez**, Head of Military Aircraft within Airbus Defence and Space, effective January 1, 2019. He will report to Airbus Defence and Space Chief Executive Officer (CEO) **Dirk Hoke** and become Member of the division's Executive Committee. Furthermore, Gutiérrez will also serve as Head of Airbus Spain, overseeing the company's overall busi-

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Alberto Gutiérrez

ness activities in the country. He succeeds **Fernando Alonso**, who will retire after 40 years in the aerospace industry, thereof 37 at Airbus. Fernando Alonso will stay on until the end of March 2019 to ensure a smooth transition with his successor.



Leo Koppers (r) and Martin Friis-Petersen

- On January 1, 2019, **Martin Friis-Petersen** will take on the role of Senior Vice President MRO Programs at MTU Aero Engines, heading up the sales and marketing organization for MTU Maintenance. He takes over from **Leo Koppers**, who is retiring after 16 years with MTU. Koppers successor, Martin Friis-Petersen, has been the Managing Director of MTU Maintenance Lease Services B.V. since 2014. Friis-Petersen joined MTU in 1999 and has held various leadership roles throughout the company, including those of Chief Financial Officer of MTU Maintenance Zhuhai and SVP MRO Operations at MTU Maintenance Hannover.

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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	V2522-A5	1604	2001	Q1/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-100	ORIX Aviation	V2522-A5	1445	2001	Q4/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	V2527-A5	4603	2011	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A321-200	Castlelake	V2533-A5	3274	2007	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A321-231	Aircraft Recycling Intern.	V2533-A5	3241	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A321-231	Aircraft Recycling Intern.	V2533-A5	3251	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A330-200	Castlelake	CF6-80E1A4	473	2002	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	Castlelake	CF6-80E1A4	489	2003	Q4/2020	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26/3	29660	2007	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
(2) B787-800					soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR 72-202	ACI Aviation Consulting	PW124B	455	1995	Now	Sale / Lease	Quentin Brasie	Qbrasie@aciaviation.com	+1 540-428-4388
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10029	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	325	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700142		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700152		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700155		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145768	2003	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
SF340B	C&L Aviation Group	CT7-9B	194	1990	Now	Sale / Lease	Fred Dibble	fred.d@cla.aero	+1 207-217-6128
SF340B+	C&L Aviation Group	CT7-9B	425	1997	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
Saab 340B+	C&L Aviation Group	CT7-9B	368	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340A Cargo	C&L Aviation Group	CT7-5A	046	1986	Now	Sale	Fred Dibble	fred.d@cla.aero	+1 207-217-6128

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THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(multiple) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-8E5A1	Oct 18 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-10E6	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
CF& Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CF6-80C2A2	Now - Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 2071906138
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B27/E	Now - Lease				
(1) CFM56-7B27	Now - Lease				
(1) CFM56-7B26	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-3B1	Soon - Sale/Lease/Exch.		David Desaulniers	leasing@willislease.com	+1 415 516 4837



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B3/P	Dec 18 - Sale / Lease	Magellan Aviation Group	Bill Polyj	bill.polyj@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B26	Jan 19 - Sale / Lease				
CT7 Engines	Sale / Lease	Company	Contact	Email	Phone
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
(2) JT8D-219	Now - Sale	LCH Trading	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
(1) JT8D-217C	Now - Sale				
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GENx	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1A33	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(2) LEAP-1B28	Soon - Lease				
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyj	bill.polyj@magellangroup.net	+1 (704) 504 9204 x202
(2) PW123	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(1) PW121	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) PW124B	Now - Sale/Lease/Exch.				
(2) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				
PW127	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Kryns	rkryns@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(1) V2533-A5S2 Zero-TSN engine with RGI	Now - Lease	TrueAero, LLC.	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent5562 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
(1) GTCP331-500B	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azures.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250,			Rich Lewsley	rlewsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500 / 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@Werner aero.com	+1 201-674-9999
737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
(3) APS 2300	Now - Sale/Lease/Exch.		Mike Cazaz	mike@werner aero.com	+1 201-661-6804
767-300 Winglets, LH-RH P/N 767-0010-5, -6, -7 & -8, SV- Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368