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## WORLD NEWS

### More Caribbean, for Spirit Airlines

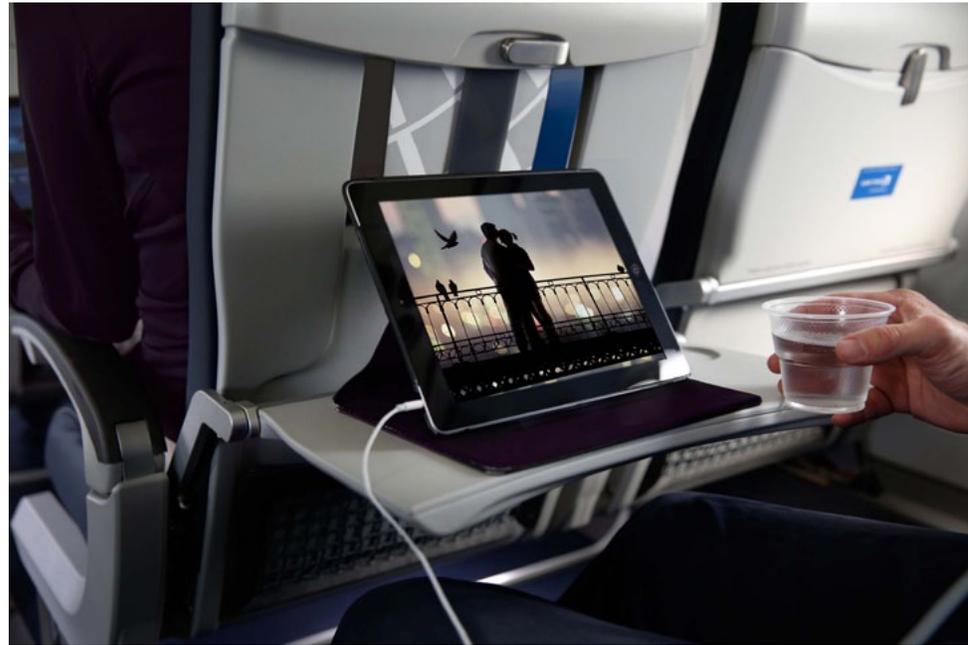
Spirit Airlines now connects Fort Lauderdale-Hollywood International Airport (FLL) to Cap-Haïtien International Airport (CAP) in Haiti's second largest city. This new flight marks the second destination for Spirit in Haiti, complementing existing service to Port-au-Prince (PAP). Additionally, low fare flights to St. Maarten's Princess Juliana International Airport (SXM) resume on May 5, 2018 as recovery continues and tourism opportunities grow after the impact of last year's hurricanes. Spirit will also connect South Florida to St. Croix's Henry E. Rohlsen Airport (STX), Spirit's second destination in the U.S. Virgin Islands, starting on May 24, 2018.

### IAG's statement on Norwegian

International Airlines Group (IAG) notes the recent press speculation that it is considering making an offer for Norwegian Air Shuttle ASA (Norwegian). IAG considers Norwegian to be an attractive investment and has acquired a 4.61 per cent ownership position in Norwegian (minority investment). The minority investment is intended to establish a position from which to initiate discussions with Norwegian, including the possibility of a full offer for Norwegian.

### GECAS leases 737 MAXs to Jet Airways

GECAS has committed to lease twelve Boeing 737 MAX8s to Jet Airways (India) Limited with deliveries commencing from 12 June 2018 and continuing into 2020. Six of these MAX aircraft will be from GECAS' skyline order while the other six are from sale and lease back transactions from Jet Airways' order book. The new technology aircraft are fitted with CFM-LEAP-1B27 engines.



United has expanded its personal device IFE options.

Photo: United

## United revamps IFE offering

With more free entertainment options

United Airlines has just announced what it refers to as better entertainment options for passengers to make their next flight fly by. United has expanded its personal device entertainment option to all aircraft with DIRECTV live streaming for purchase to provide at least one free entertainment option on all Wi-Fi equipped

aircraft (which is any aircraft with more than 70 seats). Between February and April of this year, the airline installed personal device entertainment onto more than 200 aircraft that previously only offered DIRECTV. Customers can now use a personal laptop, Apple iOS device

or Android device to access a library of complimentary movies and TV shows, in addition to having the opportunity to purchase DIRECTV to view live programming.

**“We’re excited to expand our personal device entertainment offering, which has been a popular option amongst many of our customers...”**

*said Mark Krolick, VP Marketing at United Airlines.*

“Whether it is seatback on-demand, DIRECTV or personal device entertainment, we offer customers hundreds of hours of programming to enjoy during their travels,” said Mark Krolick, vice president of marketing at United Airlines. “We’re excited to expand our

personal device entertainment offering, which has been a popular option amongst many of our customers who tend to bring their own devices when they travel.”

To enhance personal device entertainment, on select flights during the busy summer travel season, United will distribute free cardboard phone stands which prop up devices and allow hands free viewing. The airline continues installing in-seat power outlets to help customers keep their devices charged while watching their favourite movies and shows.

*Continued on page 3*

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United is also committed to improving the entertainment options for customers with disabilities. Earlier this year, the airline began offering a new main menu category on seatback on-demand that is labelled Accessible Entertainment. This new section makes it easier for customers with hearing and vision challenges to find accessible entertainment options, grouping all of the titles that are either audio descriptive or closed captioned in one main menu category. Seatback on-demand is one of United's entertainment options available on 757, 767, 777 and 787 aircraft. The carrier currently offers approximately 20 different movies and TV shows that are audio descriptive and more than 50 that

include English closed captioning. Select DIRECTV channels also include closed captioning when the TV station makes it available. United continues to add additional accessible entertainment and screening options across its fleet.

Unique highlights of United's personal device entertainment programming include: an exclusive partnership with VEVO, delivering new, curated music video playlists each month; relaxation content including Headspace, a popular meditation app and Moodica, which takes the brain on a much-needed vacation using videos.

## AIRCRAFT & ENGINE NEWS

### AerCap leased, purchased and sold 114 aircraft in the first quarter of 2018

AerCap has announced its major business transactions during the first quarter of 2018. The Company signed lease agreements for 83 aircraft, including 15 wide-body aircraft and 68 narrow-body aircraft. AerCap purchased seven aircraft, including two Airbus A320neo Family aircraft, two Airbus A350s and three Boeing 787-9s and executed sale transactions for 24 aircraft, including 11 Airbus A320 Family aircraft, four Airbus A330s, one Airbus A340, one Boeing 737 Classic, one Boeing 737NG, two Boeing 777-200ERs and one Boeing 787-8 from AerCap's owned portfolio and two Airbus A320 Family aircraft and one Boeing 737 Classic from AerCap's managed portfolio. The Company continues to manage 12 aircraft that were sold from its owned portfolio during the quarter. AerCap has signed financing transactions for US\$2.9bn.

### Lion Air Group orders 50 737 MAX 10 airplanes

Boeing and the Lion Air Group have announced the airline has purchased 50 of Boeing's new 737 MAX 10 airplanes. The deal, valued at approximately US\$6.24bn at list prices, is the largest incremental order to date of the MAX 10 variant. The order was previously listed as uniden-

tified on Boeing's Orders & Deliveries website. The Lion Air Group was the first to put the 737 MAX 8 into service and the first to order the 737 MAX 9. Last month, the Group became the first to take delivery of a 737 MAX 9, using the airplane's added capacity to launch several international routes.

### JetBlue selects Pratt & Whitney Geared Turbofan™ engines

JetBlue Airways has selected the Geared Turbofan™ (GTF) engine to power an additional 45 Airbus A320neo family aircraft. With the airline's previous order of 40 GTF-powered A320neo family aircraft, JetBlue has now com-

## Orders and deliveries – Boeing and Airbus

Airbus v Boeing: Orders and Deliveries					
March 2018 YTD					
Airbus			Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A320 Family	37	95	737	171	132
A330	-6	8	747	14	2
A340	0	0	767	7	4
A350	0	17	777	5	12
A380	14	1	787	24	34
<b>Total</b>	<b>45</b>	<b>121</b>	<b>Total</b>	<b>221</b>	<b>184</b>

Source: Airbus

Source: Boeing

Airbus booked orders for eight A320 Family single-aisle jetliners in the NEO and CEO versions during March, while delivering 56 aircraft in the month from across the company's in-production single-aisle and widebody product lines.

Boeing generated a total of 197 orders in March including a staggering 160 737s. Deliveries in the stated month reached 91 planes across the in-production product line.

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**AIRCRAFT & ENGINE NEWS**

mitted to 85 GTF-powered aircraft, including both A320neo and A321neo models. Pratt & Whitney will also provide JetBlue with engine maintenance through a 15-year EngineWise™ service agreement. EngineWise represents a commitment to help customers optimize engine performance and keep their fleets running smoothly. It includes engine fleet data analytics and real-time intelligence to predict and prevent engine disruptions before they occur, significant investments in new technology and resources to improve responsiveness and flexibility, and a growing portfolio of service offerings.

**Elix Aviation Capital Confirms a Sale-and-leaseback Transaction with Ethiopian Airlines Group**

Ireland-based Elix Aviation Capital (Elix) has concluded a sale-and-leaseback transaction with Ethiopian Airlines Group including two new Bombardier Q400 aircraft. The first of these two aircraft, MSN 4578, was purchased on April 6, 2018 and immediately delivered to Ethiopian from Bombardier’s facility in Toronto, Canada. The second aircraft in the transaction will be sourced from Ethiopian’s order-book with Bombardier and is forecast to be delivered later this year. Through this transaction, Elix continues to develop and further invest into the capabilities and services it brings to its African customers. MSN 4578 is the third aircraft Elix has leased to Ethiopian and the seventh Bombardier Q400 aircraft added to Elix’s portfolio of leased turbo-prop assets.

**TrueNoord closes purchase of three Embraer E190 regional aircraft from GECAS**

TrueNoord, the regional aircraft lessor, has closed the purchase of three Embraer E190 aircraft from GECAS. These aircraft are under lease with and operated by HOP!, the regional operator for AirFrance-KLM in France. This additional group of three regionally operated E190 aircraft adds to the significant investment in TrueNoord’s

**Boeing, American Airlines sign new Dreamliner order for 47 787s**



American Airlines will more than double its 787 Dreamliner fleet with a new order for 47 aircraft *Photo: Boeing*

American Airlines will more than double its 787 Dreamliner fleet with a new order for 47 of the super-efficient airplane, plus 28 options. This new order of 47 787s makes American Airlines the largest 787 customer in the Western hemisphere. American originally ordered 42 787 Dreamliners and has been using the airplanes to open new routes around the world, including Asia Pacific and Europe, and boost its network efficiency. While American still has more airplanes on the way from its initial order, the airline is buying the additional Dreamliners – 22 787-8s and 25 787-9s – to further modernize and expand its fleet. American has chosen GE Aviation’s GENx-1B engines to power its 47 newly ordered Boeing 787 Dreamliners. American becomes the latest airline to place a repeat order for the 787 Dreamliner. More than half of the program’s 71 customers have done so, which has helped the 787 program achieve more than 1,350 orders to date. Boeing’s Global Services division provides American Airlines with efficiency tools such as Airplane Health Management and Toolbox, which help the airline improve operational performance and improve dispatch reliability.

Embraer fleet under lease and increases the organization’s portfolio to fifteen globally operated E190s, with further acquisitions in the pipeline. The purchase was partially financed under a new finance facility arranged by BNP Paribas and DVB

Bank SE. Pillsbury and Stek acted as legal advisers for TrueNoord throughout the transaction. TrueNoord now provides eight E190’s to support the regional operations divisions of the Air France-KLM Group.

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**flynas signs agreement with CFM International for LEAP-1A engines**

In line with the visit of Crown Prince HRH Mohammed bin Salman to Paris, flynas, the national carrier and one of the leading low-cost airlines in the Middle East, has signed an agreement with CFM International to acquire LEAP-1A engines. With a list price worth US\$6.3bn (SAR 23.6bn), flynas' agreement with one of the world's leading supplier of commercial aircraft engines includes the acquiring of LEAP-1A engines to power the incoming fleet of 80, A320-neo aircraft ordered by flynas, scheduled to be delivered starting from 2018. The agreement also comprises an associated long-term maintenance and service agreement for the A320 new aircraft fleet with CFM.

**Hi Fly welcomes two new A330-200 aircraft to its fleet**

Hi Fly, a European airline specializing in wet leasing, will welcome two new Airbus A330-200s to its fleet this summer. Coming from a direct order to Airbus Industries, the two planes are currently in final assembly stage in Toulouse and one will be delivered to Hi Fly in June and the other in July 2018. Both aircraft have a two-class cabin configuration with a total capacity of 274 passengers allocated between Business Class (18) and Economy Class (256). The aircraft will be equipped with Rolls-Royce Trent 700 engines, state-of-the-art technology and finishing.

**GECAS and PK Air Finance provide Lion Air Group financing of 51 aircraft**

GECAS and its wholly owned subsidiary, PK Air Finance have concluded a significant aircraft financing transaction covering a total of 51 aircraft operated by Lion Air Group, GECAS' largest customer Southeast Asia. The financing covers 21 Boeing 737-900ER's currently operated by Lion Air and 30 aircraft on order by Lion Air, including Boeing 737 MAX 8's and 9's as well as the Airbus A320/A321neo.

**Jota Aviation takes delivery of first of four BAE 146-300 QTs**



146-300 QT freight cabin

Photo: Jota Aviation

London Southend Airport, UK-based Jota Aviation has taken delivery of the first of four 146-300 QT pure Freighter aircraft in a multi-million-dollar deal which is set to substantially increase its market share and position the company as a market leader in the cargo charter sector. The first aircraft (registered G-JOTE) will enter service on June 1, 2018 followed by a rollout of the additional three aircraft in late 2018. The BAe 146-300 QT aircraft, acquired from ASL Madrid will complement its existing passenger fleet of BAe 146/Avro RJ aircraft, benefiting from utilizing existing crew, engineering and spares, maximizing efficiency and providing resilience to clients.

**MRO & PRODUCTION NEWS**

**Avianor and Lufthansa Technik sign cooperation agreement**

Avianor and Lufthansa Technik of Hamburg, Germany have signed a Cooperation Agreement. The agreement provides Avianor with access to Lufthansa Technik's Base Maintenance modular services in the areas of Planning, Engineering, Materials, Logistics and Benchmark performance data. With Lufthansa Technik's centralized Base

Maintenance Services Avianor can benefit from the data and the experience of thousands of aircraft maintenance events. Therewith, Avianor increases its quotation accuracy and has the potential to greatly improve event TAT due to precise work preparation and enhanced planning and material support. With these resources at its disposal, Avianor can accelerate its growth, increase customer service and quality, and offer clients world-class back office support. "This agreement allows our relatively small MRO to compete more equally with the larger players in our industry," said Earl Diamond, CEO of Avianor.



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“Being a subscriber to Lufthansa Technik’s modular services, Avianor took the first step to be part of Lufthansa Technik’s global network”. “We are pleased to welcome Avianor as Cooperation partner to foster the strategic development for modular services of Lufthansa Technik’s Base Maintenance network,” said Thomas Rueckert, Vice President Base Maintenance Services at Lufthansa Technik. Over the next six months, the roll-out of these new services will be completed. Further developments of already identified potential in other fields of collaboration are planned to widen the range of cooperation in the future.

**C&L Aerospace signs material support agreement with TAG Airlines**

C&L Aerospace, a C&L Aviation Group company, has signed a material support agreement with TAG Airlines for their Embraer 145 and Saab fleet. This new partnership will allow C&L to better support its customers in the Latin American market. “We have seen that the regional airlines businesses are starting to have access to better aircraft in Latin America as market conditions have changed,” said Carlos Ordonez, C&L’s Director of Business Development in Latin America. “My commitment remains to be able to understand the customer needs in the region and to align them with the full regional aircraft support that C&L offers.” C&L Aviation has been in the Saab 340 business for more than 20 years and is recognized as a world leader in the regional aircraft market. C&L entered the ERJ market several years ago and continues to see considerable growth in those areas. In addition to the material support agreement, TAG Airlines has also hired C&L for its paint services.

**China Southern Airlines first to select business class humidification on A350XWB**

CTT SYSTEMS AB (CTT), a market leader of aircraft humidity control systems, has unveiled China Southern Airlines as the previously undisclosed airline that selected the A350XWB op-

**Qatar Airways Signs Letter of Intent for five 777 Freighters**



Signing ceremony of LOI for five 777 Freighters, His Excellency Mr. Al Baker, Qatar Airways Group CEO (right) and Kevin McAllister, President & CEO, Boeing Commercial Airplanes (left) Photo: Boeing

Boeing and Qatar Airways have signed a letter of intent to purchase five 777 Freighters. When the purchase is finalized, it will be posted to Boeing’s Orders and Deliveries website. “The addition of five 777 Freighters is a significant moment for our cargo division,” said His Excellency Mr. Al Baker. “As the world’s third-largest cargo operator, Qatar Airways continues to invest in fleet expansion. This transaction will be a reinforcement of our confidence in Boeing to continue to deliver an outstanding product that meets our exacting standards. We expect no less than perfection, and we are confident that Boeing will continue to deliver that.”

tional Inflight Humidification system, first ever to be fitted in business class. Increased humidity is essential in offering a cabin climate that makes passengers feel more balanced and at ease during long-haul flights. In the humidified business class cabin, passengers will more easily remain hydrated, aiding quality of sleep and reducing jet lag. China Southern Airlines has selected SFE humidifiers on all of its 20 A350-900 aircraft on order. China Southern pilots, crew and passengers will all benefit from a dedicated humidifier in the flight deck, in both crew rest stations and three in the large business class cabin. First entry into commercial service is scheduled for mid-2019.

**Rolls-Royce selects StandardAero for 20-year MRO Services Agreement for AE 2100, AE 1107 and T56 Series IV engines**

StandardAero has signed a 20-year Memorandum of Agreement (MOA) with Rolls-Royce to provide maintenance, repair and overhaul (MRO) services for the AE 2100, AE 1107 and T56 Series IV engine models through the year 2038. The MOA, with a projected value exceeding US\$15bn over the twenty-year period, designates StandardAero as the primary provider of MRO services, following a competitive bidding process within the Rolls-Royce Authorized Maintenance Center (AMC) networks. The agreement



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significantly grows work currently conducted by StandardAero on the Rolls-Royce AE 2100 and T56 engines and provides a high level of new volume for the company on the AE 1107 engine. Overall, the new agreement also expands the scope of StandardAero's MRO support for Rolls-Royce military engine product lines and customers. StandardAero will service these engines at its San Antonio, Texas; Maryville, Tennessee, and Winnipeg, Manitoba Canada facilities. The extension into these locations also includes the modification of engine test cells to provide full-service MRO capabilities across the company's North America facilities.

**Avianor receives dismantling contract for nine Airbus A310 aircraft**

Avianor has been awarded a contract for the dismantling of nine Airbus A310 aircraft. While not part of its regular business of cabin integration and heavy maintenance, Avianor was approached by a long-time client for assistance and agreed to provide the needed support to dismantle these aircraft. Once dismantled, the remaining parts of the fuselage and wings are carefully recycled by Aerocycle, a local company specializing in aircraft demolition. The dismantling started earlier this year and will continue through the remainder of 2018 and into 2019 as the aircraft are retired.

**FL Technics lands WOW Air as new client**

FL Technics, a global provider of integrated aircraft maintenance, repair and overhaul services, has signed an agreement with WOW Air for base maintenance services. The first two Airbus A321 aircraft have already arrived at FL Technics facilities for the base maintenance projects. WOW Air is an Icelandic low-cost carrier focusing on transatlantic flights and based at Keflavik International Airport. It is a rapidly growing company, operating 15 Airbus A320s family and three Airbus A330s aircraft, having an average fleet age of around three years. The company also has four new Airbus airliners on order.

**New North American facility to focus on Aerospace sub-system testing**

A new facility has been developed in Michigan to help the aerospace industry with specialist testing requirements. Developed and operated by Drive System Design Inc, the North American subsidiary of UK-based driveline engineering consultancy Drive System Design, the facility will offer a unique approach to the design, test and

**SAS confirms order for 50 Airbus A320neos**



SAS signs firm order for 35 Airbus A320neo Family aircraft, Photo: © Airbus, C. Brinkmann Photo: Airbus

Only a few days after American Airlines announced that it has canceled its order for 22 Airbus A350s, Sweden's flag-carrying airline Scandinavian Airlines (SAS) has announced it intends to buy or lease a total of 50 Airbus A320neos, with an option for a further five. The purchase is part of a transition by SAS to all-Airbus commercial jets for its short-, medium- and long-haul flights as it continues its march towards a more standardized and financially efficient fleet of aircraft. The order has been divided into two parts – 15 aircraft which are to be leased through lessors, for which declarations of intent are in place, and which will be delivered from spring 2019 through to 2021. The remaining 35 planes will be delivered directly to SAS up to 2023. The cost of the 35 A320neos stands at US\$4 billion at list price. SAS has already 17 Airbus A320neos in service from a previous order for 30 Airbus A320neos. This latest order means that SAS will have a minimum 80 Airbus A320neos in service by 2023. In line with the deliveries of the new Airbus A320neos, SAS will begin phasing out its Boeing 737 and existing Airbus A320 aircraft.

**Singapore Airlines selects GuideU for Boeing 787 fleet**



Singapore Airlines selects GuideU for Boeing 787 fleet Photo: LHT

Singapore Airlines has chosen Lufthansa Technik's GuideU 1000-Series emergency floor path marking system to be installed into its new Boeing 787-10 fleet. A total of 49 aircraft of this type are scheduled to be delivered to Singapore's flag carrier from the first quarter of 2018. Singapore Airlines already relies on GuideU for its Airbus A350 fleet. The GuideU 1000-Series is the next-generation non-electrical floor path marking system, using photoluminescent strips to guide passengers to the exits if cabin lighting fails. GuideU 1000-Series is available in many different colors that can be integrated into any cabin design, making it almost invisible under normal lighting conditions. Fillers in various sizes allow adapting the light strip assembly height to different carpets.

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development of various sub-systems in the aerospace industry. “As aircraft become more complex, so does the testing required to validate it. As a result we have seen an increase in demand for specialist testing expertise,” says Jon Brentnall, President DSD Inc. “Our parent company has developed what we believe is Europe’s most advanced, commercially-available development center for gearbox efficiency, with many test systems designed in-house to ensure that areas that have not previously received sufficient attention can now be investigated. It is our intention to build similar test capability tailored to the North American market.” The facility will initially house a loaded gearbox efficiency test rig and will be developed throughout the year to finally include three pieces of gearbox test equipment. The current rig, which is fully operational, is suitable for various applications, such as layshaft and planetary gearboxes for APU’s and landing gear applications. Further expansion throughout the year will include a hydraulic test stand for hydraulic valve body development and a dynamic tilt rig, which provides enhanced lubrication flow analysis capability. “This will require a larger facility in the area, which we are already investigating,” says Brentnall. “We are delighted to be offering this opportunity for the automotive industry in North America, but also for aspiring engineers looking for their next challenge – the initial expansion has already generated nine engineering vacancies.” The new facility will also include extensive customer accessibility, allowing DSD’s engineers to work closely with its customers throughout design, development and validation programs.

**Aero Mechanical Industries re-brands as AerSale Component Solutions®**

AerSale®, a global supplier of mid-life aircraft, engines, used serviceable material, and maintenance, repair, and overhaul (MRO) services, has reported the rebranding of its Aero Mechanical Industries facility in Rio Rancho, New Mexico, to AerSale Component Solutions. Specializing in the MRO of composite and mechanical airframe components, AerSale Component Solutions provides a wide range of innovative, high-quality component overhaul and aircraft component repair solutions developed to meet or exceed OEM standards. These services are fully supported with a large inventory of aircraft spares, loaners and exchange units. The company is located in the Albuquerque area, New Mexico’s largest city, and features a 100,000-ft<sup>2</sup> aircraft repair facility with five adjoining work stations. A team of over 35 aerospace professionals and mechanics handles airframe component and structures repair and overhaul, composite flight surfaces, sheet

**Satair and VAS Aero Services expand strategic services cooperation to include market-critical airframe and engine products**



Nicolai Hertz, Head of Serviceable Parts, Satair (left) shakes hands with Tommy Hughes, Chief Executive Officer, VAS Aero Services  
Photo: Satair

VAS Aero Services, a global leader in aviation logistics and aftermarket services, and Satair, an Airbus wholly-owned subsidiary, announced that they are expanding their strategic services agreement covering servicing, certification, warehousing and distribution of OEM excess parts inventory, with the addition of market-critical engine product types. The strategic services for used and surplus parts programs benefit Satair’s global customer base, offering a wide range of opportunities for available parts with VAS’ online parts sales platform and the Airbus Spares portal. Additionally, the agreement provides Satair customers with access to VAS-owned certified surplus new and certified serviceable / overhauled used components, and related operational support.

metal, structures, nacelles, mechanical component repairs, full Level III NDT services, certified welding, brush cadmium plating, and aluminum flame spray. AerSale acquired Aero Mechanical Industries in 2015.

**Av8 PMA expands operations with new dedicated engineering facility**

Av8 PMA, a leader in the reverse engineering, certification and manufacturing of PMA aircraft parts, will expand its current operation by adding a 3,320 ft<sup>2</sup> facility in Dallas, TX, dedicated to the company’s engineering activities. The new location is scheduled to be operational this month. The facility will act exclusively as an engineering facility, handling engineering and certification work for PMA. Additionally, the space will have on-site laser scanners, a 3-D printer, and other high-powered equipment that will increase efficiencies related to the reverse engineering process of parts and prototype development. The Dallas location will provide engineering work for clients within all segments of the aviation indus-

try. “This facility is the culmination of almost a year’s work to elevate our in-house engineering and certification capabilities to the next level and better position ourselves for future growth,” said Yoel Arnoni, Principal, Av8 PMA.

**Czech Airlines Technics receives maintenance certificate for aircraft operated by Chinese airlines**

Czech Airlines Technics (CSAT), a daughter company of the Czech Aeroholding Group providing aircraft repair and maintenance services, has received the approval of the Civil Aviation Administration of China (CAAC) to perform Line Maintenance services for Chinese airlines. CSAT’s employees can now verify aircraft post-maintenance airworthiness without having to request the presence of the official airline technician. At this point, the certificate covers the Line Maintenance of Airbus A330, Boeing 767 and 777 operated by China Eastern Airlines in general. This type of maintenance of aircraft is performed either on a regular basis (e.g. daily or

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weekly), or ad hoc. It includes a thorough aircraft check, the refilling of all fluids, the completion of minor repairs, the checking of individual aircraft parts and an evaluation of whether or not an aircraft is fully functional and flight ready. The certification process before the Chinese office took over a year and a half. During that time, it was necessary to draft and present the required legal documents pursuant to the Chinese legal system, which were then subjected to a thorough approval process.

**Safran launches NacelleLife™ offering for full jet engine nacelle solution services**

Safran Nacelles has unveiled the NacelleLife™ service offering, providing complete coverage of its jet engine nacelle systems – including thrust reversers. This new offering provides tailor-able nacelle services to the requirements of operators, involving any or all steps from preparations for a jetliner’s service entry through its retirement from operation. NacelleLife™ is developed for responsive, cost effective and high-quality services that keep airliners in operational condition while minimizing maintenance costs. Focusing on a customer’s fleet, the components of NacelleLife™ include initial provisioning assistance and hands-on maintenance coaching for an aircraft’s pre-entry phase. This is followed by on-site presence and online access to technical documentation at entry-into-operation; fleet management for operational continuity, along with scheduled and unscheduled maintenance and proactive preparation for scheduled maintenance while in revenue service. Transition support for the phase-out is the last step. “NacelleLife™ brings together the expertise of a world-leading nacelle manufacturer with our proactive, optimized services that anticipate

and respond to customers’ needs throughout the lifecycle,” explained Olivier Savin, Safran Nacelles’ Vice President of Customer Support & Services. “It applies to our full range of nacelles, from legacy products to current production and upcoming nacelle systems – including those on the A380, A320neo and A330neo aircraft.”

**CAAC issues LEAP-1A Validated Type Certificate**

The Civil Aviation Administration of China issued the Validated Type Certificate (VTC) for CFM International’s LEAP-1A engine on March 30, 2018, a critical milestone that paves the way for the Airbus A320neo validated type certification and enabling aircraft operations in China. The document signed by the CAAC validates the original European Aviation Safety Administration (EASA) type certificate issued May 31, 2016 for all LEAP-1A thrust ratings. “This effort is a great example of true cooperation between several different entities,” said Gaël Méheust, President and CEO, CFM International. “Teams from both our parent companies worked diligently with the CAAC and EASA to achieve this certification as quickly and efficiently as possible. We are looking forward to our many customers in China reaping all the efficiency and asset utilization benefits the LEAP-1A engine will bring to their operations.”

**Universal Asset Management to fully recycle carbon fiber from commercial aircraft**

Universal Asset Management (UAM) has completely recycled carbon fiber from commercial aircraft. This monumental milestone in sustainability firmly entrenches UAM as a global leader in complete aircraft recycling. To illustrate this achievement, UAM will present a 3-D-printed engine stand manufactured from carbon fiber reinforced polymer (CFRP) from commercial

aircraft at the three-day MRO Americas conference. The resulting second-generation carbon fiber material is fit as a raw resource for industrial use. As such, it becomes a feasible supply for advanced additive manufacturing supply chains, utilized by automotive and other manufacturing industries in need of cost-competitive carbon fiber. Of all the structural elements comprising an aircraft, carbon fiber is the most arduous to recycle. Efforts during the past fifteen years have not yielded a viable solution that wholly completes the circular economy of carbon fiber back into manufacturing. It is with vigor that UAM undertook the challenge. Now, its success opens the door to possibilities even beyond aviation, while paving the way to total aircraft recyclability. UAM’s proprietary engineering in the use of CFRP from retired aircraft is a harbinger of future products under development by UAM’s Innovation Technology Team. CFRP use is on the rise, as today’s modern aircraft are now made of approximately 50% composite material, compared to aircraft from the 1970’s which were manufactured with less than 1% of carbon-based materials. The increasing availability of composites in younger retiring aircraft is an opportunity that is leveraged with UAM’s proprietary techniques. The UAM design team is led by Keri Wright, Chief Executive Officer. CFRP was collected through UAM’s proprietary process, filtered for purity and refined into pellets, to therefore be used as raw material for 3-D-printing. The innovative and bold process applies material science and advanced manufacturing techniques pioneered by UAM’s Innovation Technology Team. By proving that aviation components can be re-born out of composites from end-of-life aircraft, UAM has taken the technical to technology. Options for the >12,000 aircraft being retired in the next 20 years are boundless with this advancement. The successful delivery of the engine stand is tangible proof of the viability of using sustainable, digital manufacturing solutions in the aviation industry. UAM will be discussing recycling op-



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**THE ROAD AHEAD FOR ASSET MANAGEMENT**

**18 April 2018, The Gibson Hotel, Dublin, Ireland**

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MRO & PRODUCTION NEWS

opportunities and benefits with both aviation and non-aviation companies in the months following MRO Americas.

**Mandarin Airlines adds Global Maintenance Agreement to partnership with ATR**

ATR and Mandarin Airlines, a regional subsidiary of Taiwan’s flag carrier China Airlines, have signed a Global Maintenance Agreement (GMA). This comprehensive support package covers the repair, overhaul and pooling services of Line Replaceable Units, along with a door-to-door service through which ATR is providing transportation of spares to the airline’s facilities. This GMA covers the entire ATR fleet of the Taiwanese carrier, consisting of nine ATR 72-600s. Turbo-prop manufacturer ATR hereby reaches a key milestone of more than 300 in-service aircraft under GMAs. Through ATR’s flagship maintenance offer, Mandarin Airlines will benefit from an a la carte pay-by-the-hour maintenance package, with a high level of flexibility that makes it possible to meet a wide range of specific needs, depending on the operator’s local resources, fleet and expected operations. This maintenance agreement is part of a broader support from ATR who will be providing a full range of technical and engineering maintenance services, along with comprehensive training solutions for the airline’s flight crew, mechanics and technicians. ATR is also supporting China Airlines and its subsidiaries to set-up in-house capabilities for ATR heavy maintenance, up to C-checks.

**Arago and AVIATAR revolutionize aircraft overhaul processes by using artificial intelligence**

Arago, an artificial intelligence (AI) company specializing in intelligent business process automation and AVIATAR, an integrated software platform for digital products and services in the aviation industry, are planning to work together on the progressive automation of the MRO (Maintenance, Repair and Overhaul) process. A pilot project will therefore be launched in the Base Maintenance division of Lufthansa Technik, using Arago’s AI-platform HIRO™. The HIRO™ AI platform enables autonomous process automation by leveraging algorithms that apply human expertise to determine solutions, and by retaining that knowledge to solve similar new challenges. Users benefit not only from outstanding automation rates, but also from significant cost savings and the continuation of their expert knowledge. With the help of HIRO™, the planning and production expertise used for the current planning process is digitized and centralized in the pilot. This will enable the

**LHT and Asiana Airlines sign component services agreement for carrier’s Boeing 777 fleet**



Asian Airlines and LHT sign 10-year TCM contract

Photo: LHT

Lufthansa Technik and Asiana Airlines from South Korea, have signed a new, long-term agreement for Total Component Maintenance (TCM). The contract has a term of ten years starting in April 2018 and covers the nine aircraft in Asiana’s Boeing 777-200ER fleet. Component repairs will take place at Lufthansa Technik’s workshops in Hamburg. Lufthansa Technik also helps its customer Asiana Airlines build up additional component repair capacities at its headquarters in the South Korean capital of Seoul. The necessary exchanges of information and initial events, like training courses, have already begun.

introduction of a newly automated planning approach with considerable potential for reducing the turnaround times for the entire Lufthansa Technik overhaul network.

**Honeywell selects GKN Fokker as global channel partner**

GKN Fokker has signed an agreement with Honeywell to provide customers with component maintenance, repair and overhaul services for avionics and mechanical components. Customers will have access to Honeywell’s world-class avionics and mechanical solutions at GKN’s Fokker Services’ facilities in the Netherlands, U.S. and Singapore. As a long-standing member of the extended Honeywell family, GKN Fokker can now provide OEM based support with Honeywell’s licensed parts and solutions for maintenance, repairs and overhaul, enabling customers to reduce turnaround time on maintenance. With this agreement, customers will benefit from first-rate experience with legacy and mature platforms and from a high standard of repairs as a licensed facility. Honeywell-equipped aircraft will receive high-quality Honeywell parts

from local Fokker service centers at a competitive price, enhancing efficiency while reducing costs for operators. As an approved Repair Center, GKN Fokker will provide customers with flexible, reliable and competitive OEM solutions to airlines operating Bombardier, CRJ and Dash 8 families, ATR42/72 families, Airbus A300 and A320 families, Boeing 717/737/747/757/767 series families, as well as Fokker families.

**Rolls-Royce announces Jackson Square Aviation as new LessorCare customer**

Rolls-Royce has announced Jackson Square Aviation as a new customer for LessorCare, the pioneering new service tailored specifically to the needs of lessors. Jackson Square Aviation will adopt LessorCare across its existing and future fleets of Trent-powered aircraft, drawing together a range of services under one simple, flexible and comprehensive framework. Rolls-Royce launched LessorCare in January with three customers. LessorCare comprises one single, comprehensive agreement for all Trent engine types, giving customers access to all the services that they need throughout the engine lifecycle. It

**MRO & PRODUCTION NEWS**

allows lessors to pay for what they want when they need it. The benefits are faster and easier access, the incorporation of services today and for the future, and the maximizing of possible return on investment.

**Alaska Airlines selects STG Aerospace for their new cabin re-branding**

STG Aerospace has been selected as the supplier for the photoluminescent emergency floor path marking system across Alaska Airlines’ Boeing and Airbus fleets, as the airline begins to streamline the cabins of its Virgin America fleet. Alaska Airlines will install STG Aerospace’s next-generation saf-Tglo® SSUL photoluminescent emergency escape path marking system (EEPMS) on 116 aircraft across its retrofitted and new Boeing 737-700, MAX9 and Airbus A320 Family fleets. Alaska Airlines will also replace the electrical emergency lighting system in the Airbus fleet, a change expected to realise significant operational cost savings due to the high reliability and fail-safe nature of saf-Tglo®. The retrofit program is due to commence in late 2018.

**Mexico’s Interjet and WOW air select Safran NacelleLife™ support services**

Safran Nacelles has signed an agreement with Interjet to provide repair services and spares pool resources for engine nacelles that equip Airbus A320neo-series jetliners operated by the Mexican airline. The five-year agreement covers the A320neo family of aircraft, which are powered by CFM International LEAP-1A turbofan engines. Safran Nacelles’ repair services and spares resources are part of the company’s new Nacel-

leLife™ support program, which ensures responsive, cost effective and high-quality services that keep airliners in operational condition while minimizing costs. Safran Nacelles also signed a contract with WOW air to provide repair and maintenance support for engine nacelles on the Icelandic airline’s growing fleet of Airbus A320neo-series jetliners, which are powered by CFM-1A engines. The contract was signed for a five-year period and covers repair services and spares pool access for WOW air’s fleet of Airbus A320neo family aircraft.

**SIA Engineering Company signs IFEC maintenance agreement with Thales**

SIA Engineering Company has signed an In-Flight Entertainment and Connectivity (IFEC) maintenance agreement with Thales. Singapore Airlines (SIA) had selected Thales’ AVANT IFE system and Ka-band connectivity solution for its fleet of A350 XWB aircraft configured for medium-haul operations. This IFEC maintenance agreement between SIAEC and Thales will support the SIA fleet for an initial term of 10 years and the scope of services will include line maintenance, software and media content loading, and support.

**AerFin and GE Aviation sign material service agreement**

Wales-based aftermarket supply specialist AerFin has signed a three-year TrueChoice™ Material agreement with GE Aviation for serviceable OEM parts, advanced repairs and technology upgrades for the CFM56, CF34 and CF6-80C2 engines. “Since its inception, AerFin has seen the value of OEM-centric material support,” said Bob James, CEO of AerFin. “With the TrueChoice™ Material program, we can further enhance and strengthen our relationship with GE Aviation in

the future.” The TrueChoice suite of engine maintenance offerings incorporates an array of GE capabilities and customization across an engine’s lifecycle. TrueChoice Material offers high-quality new and used OEM parts, advanced repairs and technology upgrades to enhance engine performance and support higher engine residual value. All TrueChoice offerings are underpinned by GE Aviation’s data and analytic capabilities and experience to help reduce maintenance burden and service disruptions for customers.

**FINANCIAL NEWS**

**SR Technics closes US\$110m senior multicurrency revolving credit facility**

MRO service provider SR Technics has successfully closed a US\$110m senior multicurrency revolving credit facility (RCF) in cooperation with a group of leading Swiss banks. The RCF contains the option to increase to US\$150m. SR Technics is ready to seize the current strong momentum in the MRO market and is exploring opportunities to expand its services further, especially in engine services. The ring-fenced RCF will be used to provide the required liquidity for capital expenditures and to finance further growth in the working-capital-intensive business that SR Technics is engaged in. Sven Kussmann, Chief Financial Officer, said: “The deal was underwritten by four major Swiss banks which have been cooperating with SR Technics for many years and is proof to us of mutual trust and partnership. Our strong brand with decades of Swiss-made MRO experience, our well-known capabilities and experienced employees are the grounds to this partnership. The capital secured is important to strengthen our position as a leading global MRO provider offering world-class total care capability.”



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FINANCIAL NEWS

**Elbit Systems completes acquisition of Universal Avionics**

Universal Avionics Systems Corporation (UA) has completed its acquisition by Elbit Systems. As a wholly owned subsidiary of Elbit Systems, the company will lead commercial sales in North America for Elbit Systems' Aerospace Division's Commercial Aviation Business Line. "Combining our product offering with Elbit Systems' strengthens our position in the market," said Paul DeHerrera, UA Chief Executive Officer. "Our vision is to be the premier cockpit avionics supplier for the commercial aviation market, providing a fully integrated 'heads-up' and 'heads-down' experience for pilots by combining Elbit's commercial HUD (Head-up Display) technology with UA's FMS and display systems," he added. "Our complete solution will support forward-fit and retrofit aircraft including fixed-wing and helicopters." Elbit Systems' acquisition of UA brings forward an innovative opportunity to the market that until now, hadn't existed. The marketplace can expect new commercial avionics technology offerings as two product lines combine to create some of the most forward-thinking technology in cockpit avionics.

**Liebherr Group posts 2017 net income of €331 million**

In 2017, the Liebherr Group achieved the highest turnover in the Group's history, with total sales of € 9,845 million. Compared to the previous year, the family-run company increased its revenue by 9.3%. The Group is expecting further sales growth for 2018. The Liebherr Group posted a net result of €331m for the year. Compared to the previous year, this represents an increase of €33m or 11.1%. In the reporting year, there was a significant improvement in the operating result. Following the positive effects of currency movements in the previous year, the financial result, on the other hand, fell sharply. (€1.00 = US\$1.23 at time of publication.)

**Delta Air Lines posts March 2018 quarter profit**

Delta Air Lines has reported financial results for the March quarter 2018. Adjusted pre-tax income for the March 2018 quarter was US\$676m, a US\$104m decrease from the March 2017 quarter, as record revenues were offset by higher fuel prices and other increased costs including a US\$44m impact from severe winter weather. Delta's adjusted operating revenue of US\$9.8bn for the March quarter improved 8%, or US\$715m versus the prior year. This revenue result marks a March quarter

**Woodward buys L'Orange from Rolls-Royce in €610m deal**



Woodward buys L'Orange from Rolls-Royce

Photo: © Rolls-Royce

In a move to further shore up its balance sheet, Rolls-Royce has agreed to sell its subsidiary fuel injection technology firm, L'Orange, to Colorado-based Woodward in a €610m (US\$860m) deal. The transaction should be completed by the end of September this year. According to Rolls-Royce, the sale of L'Orange will "improve resilience" of the balance sheet, with the extra capital being used "to pursue opportunities that will drive greater returns". With a workforce of over 1,000 employees, L'Orange is responsible for manufacturing fuel injection products in areas including marine power and propulsion systems. Last year the operation achieved sales in the order of £212m (US\$299m).

Colorado-based Woodward designs and manufactures control systems and components for the aerospace and industrial sectors and, on the basis the deal is approved by regulators, the new company will be called Woodward L'Orange. Rolls-Royce, which employs approximately 50,000 staff spread out through 50 countries, announced a return to profit in March. It recorded a pre-tax surplus of £4.9bn for 2017, predominantly thanks to a £2.6bn (US\$3.67bn) accounting boost from the strengthening of the Brexit-hit pound.

record for the company, and was driven by improvements across Delta's business, including a 23% increase in cargo revenue and a US\$78m increase in total loyalty revenue. Delta generated US\$1.3bn of operating cash flow, as the seasonal build of cash was partially offset by the US\$1.1bn profit sharing payment to employees and a US\$500m voluntary pension contribution in the March quarter, completing funding for the full year. Delta generated US\$173m of free cash flow during the quarter, after the investment of US\$1.2bn into the business primarily for aircraft purchases and improvements.

**Qatar Airways makes investment in JetSuite**

Qatar Airways, the national airline of the State of Qatar and JetSuite, a U.S. private aviation company, has taken a minority stake in JetSuite, and indirectly in JetSuiteX. Qatar Airways joins

JetBlue Airways, which will be increasing its investment and a number of private investors as stakeholders in both JetSuite and JetSuiteX. With this investment in JetSuite, Qatar Airways will help fuel the growth of JetSuite's private aviation business, which currently focuses on light and very light jets. The investment extends to JetSuiteX, the sibling company to JetSuite, further accelerating the expansion of its acclaimed semi-private air service on the U.S. West Coast and beyond. JetSuiteX fills a niche in underserved short haul markets and small airports and enjoys a Net Promoter Score over 90, higher than the major U.S. airlines. JetSuiteX operates its fleet of Embraer 135 aircraft from private terminals in California and Nevada, with no lines, no waiting and no stress, at a price competitive with commercial travel. The Qatar Airways investment will enable faster expansion of this fleet and the ability to reach new destinations, including the potential to bring the semi-private model to additional U.S. regions.

FINANCIAL NEWS

**Jet Aviation agrees to acquire Hawker Pacific in US\$250m deal**

It has been announced that Jet Aviation has signed a binding agreement to acquire Hawker Pacific for US\$250 million.

Commenting on the deal, Rob Smith, president of Jet Aviation commented: "The acquisition of Hawker Pacific represents a significant step in expanding our footprint, capability and customer offer across Asia Pacific and the Middle East. Hawker Pacific has a wide range of services including Civil MRO, Fleet Services, FBO Network and Aircraft Sales, enabling Jet Aviation to further expand its current portfolio, enter new markets, and reinforce the company's position as one of the world's leading business aviation service providers." Jet Aviation is a Basel-based business aviation services company and a wholly owned subsidiary of General Dynamics, employing over 4,000 staff in 30 airports throughout North and South America, Europe, the Middle East and Asia. The company is involved in aircraft maintenance, completions and refurbishment, engineering, fixed-base operations, along with aircraft management, charter services. It's U.S. and European charter divisions operate a combined fleet of over 250 aircraft. Hawker Pacific is the market leader in integrated civil and military aerospace sales and product support in the Asia Pacific and Middle East. It operates established businesses in Australia, New Zealand, Singapore, Malaysia, Philippines, China and the United Arab Emirates. It supports a wide range of fixed wing aircraft and helicopters for corporate, charter, defence and special mission operators.

MILITARY AND DEFENCE

**MTU Maintenance Canada signs CF6-50 and accessory repair contract with Lockheed Martin**

MTU Maintenance Canada and Lockheed Martin have signed two contracts covering the maintenance, repair and overhaul of CF6-50C2 en-

**Boeing partners with Hindustan Aeronautics to bid for Indian Fighter Jet contract**



Super Hornet taxis to runway

Photo: Boeing

The Indian government has been looking for a new source for up to 400 jets for the Indian Air Force after the cancellation of the 126-plane Dassault deal in 2015. While Lockheed has partnered with salt-to-software conglomerate Tata Group to bid for the current 110 fighter jet contract with the F-16, and Saab teaming up with Gautem Adani, the Indian billionaire, to bid with its Gripen jet, Boeing has joined the race after teaming up with Hindustan Aeronautics Ltd. to offer its F/A Super Hornet. The deal is expected to be worth a figure in excess of US\$15 billion. As part of the deal's mandate and in line with Prime Minister Narendra's 'Make in India' policy, at least 85% of any aircraft must be built locally. The government's search for fighter jets began over 15 years ago and a condition of the current bidding is that delivery must start within three years of a contract being signed. Prime Minister Narendra Modi is extremely keen to acquire new military aircraft as the South Asian nation faces increased risks from neighboring Pakistan and China and it is currently phasing out its existing jets, Russian MIG fighters.

gines as well as accessory repair for the engines. Combined, the contracts have a value of around US\$135m. These contracts support Lockheed Martin in their maintenance program for KC-10 Extender refueling tanker aircraft program on behalf of the U.S. Air Force (USAF). MTU Maintenance Canada is the MTU Maintenance group's center of excellence for engine MRO in military applications in North America. Headquartered in Bethesda, Maryland, United States, Lockheed Martin is a global security and aerospace company that employs approximately 100,000 people worldwide. The company is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

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Responding to the growing demand of airlines to increase ancillary revenue, and to enable a new generation of revenue-generating inflight services, **Panasonic Avionics (Panasonic)** has this week announced NEXT Marketplace, their new retail platform for customers of their NEXT and eX3 systems. NEXT Marketplace provides a complete end-to-end digital retail solution that incorporates an easy and flexible set of shopping channels for passengers both through seatback screens and mobile devices. NEXT Marketplace also provides airlines with tools for the creation of dynamic retail offerings and inventory man-



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PASSENGER STATISTICS - MARCH

- **WestJet** has reported March 2018 traffic results with a load factor of 85.6% per cent, an increase of 1.5 points year over year. Traffic increased 7.0% year over year, while capacity grew 5.2% over the same period. WestJet flew a record 2.2 million guests in March, a year-over-year increase of 6.7% or approximately 136,000 additional guests.
- **Finnair's** March capacity increased 18.2% year-on-year, while traffic grew by 23.4% driven by the increased demand for long-haul leisure travel. The passenger load factor increased by 3.5%-points to 84.5% compared to the same period in 2017.
- **easyJet** has reported monthly traffic statistics for March 2018, with traffic increase of 3.4% compared to March 2017. The load factor for the month was 93.4%, up 0.7 points compared to the previous year.
- **International Airlines Group (IAG)** reported Group traffic in March increased by 9.0% versus February 2017, while Group capacity rose by 5.8%. March load factor increased 2.5 points to 83.1%.
- In March 2018, the airlines of the **Lufthansa Group** welcomed around 11.1 million passengers, an increase of 15.7% compared to the previous year. The capacity was up 9% over the previous year, while the load factor increased by 3.9 points compared to March 2017 to 81.2%.
- A total of 2,816,164 passengers chose to fly with **Norwegian** in March; 362,613 more passengers than the same period last year. The total traffic growth increased by 48%, while the capacity growth increased by 44%. The load factor was 86.7%, up 2.6 points.
- **SAS** released traffic figures for March, with scheduled traffic increase of 4.5%, while capacity decreased 0.3% compared to the previous year. The load factor increased by 3.4 points to 73.1%.
- **Hawaiian** has welcomed more than 1 million guests in March 2018, an increase of 8.0% over the same period last year. Total traffic increased 8.6% on an increase of 6.7% in capacity. Load factor increased 1.5 points to 86.5%.
- **JetBlue Airways** has reported its preliminary traffic results for March 2018. Traffic in March increased 7.3% from March 2017, on a capacity increase of 3.3%. Load factor for March 2018 was 89.0%, an increase of 3.3 points from March 2017.
- **Southwest Airlines'** traffic in March increased 3.7% compared to March 2017. Capacity increased 2.4%, while the load factor was 85.1% compared to 84.1% in March 2017.
- **UAL's** March 2018 consolidated traffic increased 6.5% and consolidated capacity increased 3.8% versus March 2017. UAL's March 2018 consolidated load factor increased 2.2 points to 83.5% compared to March 2017.

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agement that can be tailored to a variety of retail models and promotional scenarios. Panasonic's strategy with NEXT Marketplace is to partner with industry leaders like gategroup, which serves more than 700 million passengers annually with its retail and catering operations. gategroup's involvement will include their technology partner **Black Swan** who will provide their extensive data analytics capabilities, enabling airlines to develop increasingly targeted and effective inflight offerings.

With consolidated earnings after taxes at around €155m, **Munich Airport** achieved the best result in its history in 2017. The Group again achieved a year-on-year increase of €100m in annual revenues to around €1.5bn – thanks in a large part to a substantial 5.5% rise in total passengers to 44.6 million. The airport's strong economic performance also paid off for the neighboring communities, which will again take in business tax revenues of €35m. In view of the record figures, Dr. Michael Kerkloh, President and CEO of Munich Airport, is confident that the company is well prepared for the challenges that lie ahead: "This ensures that Munich Airport will be able to make the necessary investments to handle its future tasks with its own financial resources." Kerkloh's outlook at today's annual press conference in Munich: "All the signs point to a continuation of our very satisfactory performance, so that we fully expect to report earnings at around

the same level for 2018." A look at the current traffic trends in the recently launched summer timetable period confirms this assessment. With five **Lufthansa** Airbus A 380 aircraft now stationed in Munich, the Bavarian hub has become just the fourth European airport – after London, Paris and Frankfurt – to serve as a home base for the world's largest passenger aircraft. Lufthansa will operate daily services to **Los Angeles, Hong Kong** and **Beijing** with the superjumbo. In addition, the German carrier has added four plans from the Airbus A320 to its Munich fleet for medium-haul flights. This has further improved the connectivity of the Munich hub.

**CTT SYSTEMS AB (CTT)**, a market leader of aircraft humidity control systems, has announced a Cair™ VIP Inflight Humidification order from **Comlux Completion** for one Boeing BBJ MAX 8. The BBJ MAX 8 completion will feature humidity in the entire aircraft cabin which requires support from three humidifiers. This award is CTT Systems' 89th VIP order for Airbus ACJs/Boeing BBJs. "We have significant experience in working with CTT on several VIP programs, starting with our first VIP Completion in 2010. Humidification is one of the most important features in engineering luxury and comfort for our most prestigious completion clients," stated Scott Meyer, CEO Comlux Completion. Meyer continued, "Cair™ VIP Inflight Humidification has proven to be a very reliable and efficient system." The CTT VIP Inflight Humidification (IFH) system achieves a comfortable level of 22 % relative humidity throughout the entire aircraft cabin. Without

such a system, the relative humidity is only 3-5 %, far below the recommended level for human comfort, health and well-being. VIP passengers will, on long-haul flights, benefit from the increase in humidity with reduction of dry air-related problems (e.g. fatigue, jet-lag, red eyes, dry skin, spread of viral diseases), but also from improved well-being and sleep. The CTT IFH system utilizes evaporative cooling technology that effectively precludes the transfer of bacteria and improves air quality by reducing particles in the cabin air. The system also offers total anti-condensation protection,

**Turkish Technic** and **HAVELSAN** have signed a Memorandum of Understanding with **Inmarsat** on the development of integrated inflight connectivity and entertainment solutions. As part of the collaboration, the three companies will offer a joint solution for emerging markets, which integrates Inmarsat's award-winning GX Aviation inflight broadband solution with the Turkish Technic-HAVELSAN inflight entertainment system.

**Panasonic Avionics, Safety Line** and **Air Austral**, one of the main airlines serving the Indian Ocean, have announced an agreement to provide fuel saving solutions for the carrier's narrowbody and widebody aircraft. As a first step, Air Austral will implement Safety Line's Opti-Climb solution on all aircraft in its fleet, which will allow the carrier to save up to six percent of fuel during ascent by delivering optimized climb

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profiles to pilots ahead of each flight. The optimization process leverages historical flight data and combines machine learning performance models for each aircraft together with accurate 4D weather gradients throughout the climb. In parallel to implementing OptiClimb, Air Austral has also agreed to test Safety Line's OptiCruise and OptiDescent solutions. These utilise Safety Line's on-board OptiFlight App together with Panasonic's connectivity to provide real-time flight recommendations taking into account the latest weather forecasts. This test campaign is a major step forward in the strategic partnership between Panasonic and Safety Line which was first announced in November 2016 and is geared towards delivering connected fuel saving solutions to airline customers.

**Inmarsat** has signed a deal with low-cost Indonesian airline **Citilink**. The deal has been signed in partnership with **Lufthansa Technik**, **Lufthansa Systems** and Indonesian tech company **Mahata Aero Teknologi** and will see a retrofit of 50 of Citilink's Airbus A320s with Inmarsat's GX Aviation in-flight broadband service.

INDUSTRY PEOPLE



Neil Russell

• Engine MRO specialists, Aero Norway AS has appointed two new members to their senior management team. **Neil Russell** will undertake the role of Chief Operating Officer and **Rune Veenstra** is the new Chief Business Officer. These appointments are part of Aero Norway's refreshed management structure which will see Russell and Veenstra act as divisional directors under CEO, **Glenford Marston**. Russell's appointment follows a seven-year career with TechnipFMC where six of those were spent as Engineering, Production & Supply Chain Director. In his new role, Russell will largely be responsible for growing the business, improving efficiency and increasing profitability in line with the company strategy. Veenstra will be joining Aero Norway after five years as Managing Director at Heli-One Norway, a helicopter MRO Company, and six



Rune Veenstra

Recommended Events



**The Road Ahead for Asset Management 2018**  
April 18, 2018 – Gibson Hotel, Dublin, Ireland

**Technical Aspects of a Leased Asset 2018**  
June 5, 2018 – Jury's Inn Hotel, Prague

**Maintenance Reserves Seminar 2018**  
June 6, 2018 – Jury's Inn Hotel, Prague

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

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

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

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years at Norse AS, the oil service company. As Chief Business Officer at Aero Norway, Veenstra will work closely with Neil Russell to drive business growth and increase market share; he will also be accountable for the development of the Company and commercial strategies.

• Airbus shareholders have approved the appointment of three new independent non-executive directors to replace long-serving board members whose mandates expired, at the close of its 2018 Annual General Meeting (AGM). Following the AGM's approval, **Victor Chu** joins the Airbus Board of Directors for a term of three years. Mr. Chu, who is Chairman and Chief Executive Officer of Hong Kong-based First Eastern Investment Group and a Member of the Board of China Merchants China Direct Investments, replaces **Sir John Parker**. **Jean-Pierre Clamadieu**, Chief Executive Officer and Member of the Board of Directors of Solvay SA and a Member of the Board of AXA SA, joins the Board and replaces **Jean-Claude Trichet**. **René Obermann**, a Managing Director at Warburg Pincus, Member of the Board of Telenor ASA and a Member of the Supervisory Board of ThyssenKrupp AG, replaces **Hans-Peter Keitel** on the Board. The mandate of non-executive director **Amparo Moraleda** was renewed for three years at the meeting. Mandates of all other Board members were not subject to any decision at the AGM.

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### Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	CFM56-5B5/P	2385	2005	Q1/2019	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
A320-200	Castlelake	V2527-A5	2288	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	Castlelake	V2527-A5	2161	2003	Q4/2018	Lease	Michael Hackett	michael.hackett@castlelake.com	+44 20 7190 6120
A320-200	ORIX Aviation	V2527-A5	3807	2009	Q1/2020	Lease	Matt McCoy	Matt.McCoy@orix.ie	+353 1824 4738
A330-200	Castlelake	PW4168A	223	1998	Q2/2018	Sale	Stuart MacGregor	stuart.macgregor@castlelake.com	+442071906138
A330-343 (2x)	SkyWorks Leasing	Trent 772B-60	various	2006	Sep 2018	Sale / Lease	Arif Husain	ahusain@skyworksleasing.com	+1 203-376-8164
A340-300	GA Telesis	CFM56-5C4	433	2001	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
A340-300	GA Telesis	CFM56-5C4	541	2003	Q1/2018	Sale	Kevin Milligan	kmilligan@gatelesis.com	+1 954-676-3111
B737-300	Aersale	CFM56-3	27707	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-300	Aersale	CFM56-3	27926	1995	Now	Sale / Lease	Craig Wright	craig.wright@aersale.com	+1 305 764 3238
B737-400	Safair Operations	Freighter	East Africa		Now	ACMI only	C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-400	Aersale	CFM56-3C1	24688	1990	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	ORIX Aviation	CFM56-7B26/3	37258	2011	Q2/2019	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B24E	40287	2012	Q1/2019	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B737-800	ORIX Aviation	CFM56-7B26/3	38015	2011	Q1/2019	Lease	Qi Sun	qi.sun@orix.ie	+353 18244732
B737-800	ORIX Aviation	CFM56-7B26	33995	2005	Q2/2019	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 871774524
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	GA Telesis	RB211-524	26637	1992	Now	Sale	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
B747-400	GA Telesis	PW4000	29950	2000	Now	Sale	Stuart Weinroth	sweinroth@gatelesis.com	+1 954 676 3111
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
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
ATR72-212	C&L Aviation Group	PW127	434	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-212	C&L Aviation Group	PW127	425	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-212	C&L Aviation Group	PW127	420	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
ATR72-202 Cargo	C&L Aviation Group	PW124B	455	1995	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-951-6259
CRJ-200LR	Regional One	CF34-3B1	7484	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10246	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10029	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-900LR	Regional One	CF34-8C5	15057	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	323	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	325	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
DASH8-311 (5)	SkyWorks Leasing	PW123B	various	96-00	Now	Sale / Lease	Arif Husain	ahusain@skyworksleasing.com	+1 203-376-8164
Do 328-100 (3x)	Jetran	PW119B/C	various	94-96	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do 328-300	Regional One	PW306B	3145	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
Do 328-300	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
E190AR (5x)	SkyWorks Leasing	CF34-10E5A1	various	06-07	Sep 2018	Sale / Lease	Arif Husain	ahusain@skyworksleasing.com	+1 203-376-8164
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Mark Dunnachie	mark.dunnachie@aerfin.com	+44 2920 109 898
ERJ-145	Regional One	AE3007A1P	145291	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
SF340B	C&L Aviation Group	CT7-9B	194	1990	Now	Sale / Lease	Fred Dibble	fred.d@cla.aero	+1 207-217-6128
SF340B+	C&L Aviation Group	CT7-9B	425	1997	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340B+	C&L Aviation Group	CT7-5A	368	1995	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340A Cargo	C&L Aviation Group	CT7-5A	046	1986	Now	Sale	Fred Dibble	fred.d@cla.aero	+1 207-217-6128

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### 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	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
<b>CF34 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(1) CF34-10E5A1	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF34-3B1	Now - Sale				
(1) CF34-8C5/B1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CF34-8E	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
(1) CF34-10E6	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CF34-10E5A1	Now - Lease				
<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) CF6-80C2B6	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) CF6-80C2B1F	Now - Lease	TrueAero	Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(5) CF6-80C2B1F	Now - Sale			aircrafttrading@gatelesis.com	
<b>CFM Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) CFM56-3C1	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
(2) CFM56-5B	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CFM56-7B26	Now - Sale				
(1) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B22/3	Now - Lease				
(4) CFM56-5C4/P	Now - Sale / Lease	Castllake	Stuart MacGregor	stuart.macgregor@castllake.com	+44 207 190 6138
(2) CFM56-3C1	Now - Sale / Lease	AerSale. Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CFM56-5C4	Now - Sale / Lease				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-7B20 TRUEngine™	Now - Sale / Exchange	CFM Materials	Jimmy Hill	Jimmy.Hill@cfmmaterials.com	+1 214-988-6670
(1) CFM56-7B24 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-7B27 TRUEngine™	Now - Sale / Exchange				
(1) CFM56-5B4/P TRUEngine™	Now - Sale / Exchange				



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(1) CFM56-5C4/P	Now - Sale	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(4) CFM56-5C4	Now - Sale				
(1) CFM56-5B	Now - Sale / Lease				
(1) CFM56-7B	Now - Sale / Lease				
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-7B26	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CFM56-7B24/3	Soon - Lease				
<b>CT7 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) JT8D-219	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1 954 676 3111
<b>GENx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) GENx	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) LEAP-1A33	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) LEAP-1B28	Soon - Lease				
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) PW121 (Dash 8)	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW121 (ATR)	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150 GRB	Now - Lease				
PW127	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Krysz	rkrysz@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610
<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

## THE AIRCRAFT AND ENGINE MARKETPLACE

### Commerical Engines (cont.)

(1) PW4168A	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(2) PW4168A (unserviceable)	Q2/2018 - Sale	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 207 190 6138
(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
(1) PW4060-3	Now - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4062-3	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4158-3	Apr 18 - Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) PW4056-3	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
<b>RB211 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
(1) RB211-535E4	Apr 18 - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
<b>Trent Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(3) Trent 800	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1)Trent 892	Now - Sale/Lease/Exch.	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
<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) V2527-A5	Soon - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) V2533-A5	Soon - Lease				
(1) V2527-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2523-A5	Now - Lease				
(1) V2527	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 2920109898
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernerero.com	+1-703-402-7430

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

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(1) A330-300 Landing Gear	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(2) A340-600 Landing Gear	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(1) A340-300 Landing Gear	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(2) GTCP331-500	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(2) GTCP331-350C	Now - Sale		Matt Parker	mparker@trueaero.com	+1 469-607-6110
(2) GTCP331-500B	Now - Sale/Lease/Exch.		Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) GTCP331-350	Now - Sale/Lease/Exch.		Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) APS 3200	Now - Sale/Lease/Exch.		Chris Luke	cluke@trueaero.com	+1 (772) 783 2300
(1) GTCP36-150RJ, (2) GTCP36-100M, (1) RE220RJ, (1) PW126 RGB, (1) PW901A (1) APS1000-C12, (1) APS1000-C3	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
(3) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250, APS3200, APS2300, GTCP85-129H			Rich Lewsley	rlsley@logix.aero	+44.79.0021.8657
APU GTCP 331-500	Soon - 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
ENGINE STANDS: Trent 800, PW4000 112"V2500		National Aero Stands		support@stands.aero	+1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Wernerero.com	+1 201-674-9999
GTCP36-300A, 737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
767-300 Winglets, LH-RH P/N 767-0010-5, -6, -7 & -8, SV- Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368