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WORLD NEWS

Belfast City Airport awards NATS air traffic control contract

NATS, which manages air traffic services at 13 other UK airports, will now take responsibility for the safety and efficiency of Belfast airport's 42,000 annual arrivals and departures, having provided engineering services to the airport since 2007. Mark Beattie, BCA Operations Director, said: "We were delighted with the level of interest from top tier Air Navigation Service Providers resulting in an open and highly competitive tender process." The NATS offering included a number of service enhancements such as the introduction of electronic flight progress strips.

WOW adds four new A321s to strengthen North America operations

WOW air, Iceland's low-cost transatlantic airline, signed an agreement with Airbus for the purchase of four new A321 aircraft, the first direct sale to the airline from the aircraft manufacturer. "We are thrilled to be adding these brand new A321 aircraft to our fast growing fleet," said Skúli Mogensen, Founder and CEO of WOW air. "WOW air is becoming one of the leading low-cost long haul airlines in the world and we look forward to expanding even further through our successful partnership with Airbus."

Tbilisi Airport sees new Dammam flights

Tbilisi International Airport, operated by TAV Georgia, welcomed the first flight from Dammam, Saudi Arabia operated by Georgian Airways on July 13, 2016.



Virgin's Richard Branson at the A350 order announcement.

Photo: Virgin

Order bonanza grips Farnborough

Airframes and engines the big winners

During the 2016 Farnborough Air Show, Airbus won \$35 billion worth of business for a total of 279 aircraft, covered by single-aisle and widebody aircraft families. The deals comprise firm orders for 197 aircraft worth \$26.3 billion and commitments for 82 aircraft worth \$8.7 billion according to Airbus.

John Leahy, Airbus' Chief Operating Officer, Customers said: "Our orders at Farnborough confirm a buoyant industry

in which we have once again surpassed our competitor. In addition, airlines upsizing to the A321neo shows that this aircraft is the undisputed 'middle-of-the-market' champion."

"This order for the larger A321neo is an important element in our long-term growth and expansion strategy."

Tony Fernandes, CEO AirAsia Group

Boeing on the other hand celebrated its centennial during the airshow amid a highly successful event that saw multi-billion dollar orders and commitments across the company, including defence platforms, commercial airplanes and services agreements.

Boeing announced orders and commitments during the week of the show for a total of 182 Boeing commercial airplanes, valued at \$26.8 billion at list prices.

Virgin Atlantic chose Airbus to supply 12 A350-1000s to replace its ageing fleet of 747s and A340s, an agreement valued at \$4.4 billion. Of the 12 firm orders, eight will be purchased and four leased, as Virgin continues its investment into increasing the mix of owned and leased aircraft in its fleet.

Virgin Atlantic CEO Craig Kreeger, said: "The size of this order demonstrates our absolute focus on investing in the future for our customers and our people, and confirms the strength of our business."

The aircraft will be delivered to Vir-

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gin Atlantic in two configurations – one for the business fleet seating up to 360 customers and one for the leisure fleet seating up to 410 customers.

Air Europa also announced an order for 20 737 MAX 8s. The order was previously attributed to an unidentified customer.

Smaller orders included Porter Airlines and Bombardier signing a firm purchase agreement for three Bombardier Q400s. The three aircraft on firm order will increase Porter's Q400 aircraft fleet to 29 aircraft. Porter exclusively flies Q400 airliners. The first two deliveries are scheduled for December 2016.

The biggest headline however was from Air Asia, in a special ceremony, the airline announced that it has ordered 200 additional CFM International LEAP-1A engines to power 100 new Airbus A321neos. The order, which expands its LEAP engine fleet to nearly 730 engines, is valued at \$2.7 billion U.S. at list price. "This order for the larger A321neo is an important element in our long-term growth and expansion strategy," said Tan Sri Tony Fernandes, chief Executive Officer of AirAsia Group. "Choosing the right engine to power them is critical to the success of



FIA16 drew orders worth over \$123bn.

Photo: Keith Mwanalushi

that strategy. For us, the LEAP-1A was the obvious choice."

Commenting on the wave of orders at the show, Shaun Ormrod, Farnborough International Chief Executive, also said: "We're delighted that the aerospace industry is choosing Farnborough to make their order announcements. It's a real indication that we are achieving our objectives as business facilitators."

AIRCRAFT & ENGINE NEWS

2016 promises to be another strong year for CFM

2016 to date is proving to be another strong year for CFM International, with the company booking a total of 1,660 engine orders through June, including 700 CFM56 engines (commercial, military and spares) and 960 LEAP engines (including spares). This total represents more than 100 engines compared to the same period in 2015. Total LEAP orders have now surpassed 10,820 engines and commitments (including spares / excluding options) for all three models at a value of more than US\$151bn at list price. LEAP engines power the Airbus A320neo (new engine option) family, the Boeing 737 MAX, and the COMAC C919. 2016 also marks the peak production year for the CFM56 family, with the company producing 1,700 engines this year, versus 1,638 in 2015, as it begins to transition to the LEAP engine. The company will continue to build CFM56 spare engines for several years to support the in-service fleet and plans to produce spare parts for the engine family until around the year 2045.

Orders and deliveries – Boeing and Airbus

Airbus v Boeing: Orders and Deliveries					
June 2016 YTD					
	Airbus		Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A320 Family	127	244	737	256	248
A330	31	28	747	4	3
A340	0	0	767	7	5
A350	25	12	777	8	51
A380	0	14	787	13	68
Total	183	298	Total	288	375

Source: Airbus

Source: Boeing

Airbus expanded its order book for the best-selling A320 Family in June with contracts for 27 of the single-aisle jetliners in both the NEO (new engine option) and CEO (current engine option) versions, while a combined total of 64 aircraft were delivered during the month from the A320, A330, A350 XWB and A380 product lines.

Boeing generated 12 orders in June with the 767-300F topping the list with six units heading to FedEx. A total of 74 aircraft were delivered including 45 737s, 14 787s, 11 777s, three 767s and single 747.

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In April, the CFM began delivering LEAP-1A production engines to Airbus in anticipation of the delivery of the first A320neo aircraft to Pegasus Airlines in the coming weeks. More than 100 LEAP engines will be built in 2016.

Kalstar Aviation signs firm order for up to 10 E190-E2s

Kalstar Aviation, an Indonesian regional operator and Embraer have signed a firm order for five E190-E2s. The contract also included five purchase rights for the same model, bringing the total potential order to up to ten aircraft. The order has an estimated value of US\$582m, at current list price, if all the purchase rights are confirmed.

Nordic Aviation Capital places firm orders for four E190 jets

Nordic Aviation Capital (NAC) has placed a firm order for four E190 aircraft. The four new E190s were included in Embraer's 2016 second-quarter backlog and have an estimated value of US\$199m, based on Embraer's list prices. These new aircraft will join the other 69 E-Jets currently managed by NAC worldwide.

ALC increases portfolio with three A350s and one A321

Air Lease Corporation, the Los Angeles-based aircraft leasing company announced a firm order for three A350-900s and one A321 at the Farnborough Airshow to meet strong market demand for more modern and fuel-efficient aircraft. Including this latest announcement, ALC's

AirAsia places major order for 100 A321neos



Low-cost carrier AirAsia signs order for 100 A321neo aircraft

Photo: Airbus

AirAsia has signed a firm order with Airbus for the purchase of 100 A321neo aircraft. The contract was announced by AirAsia Group Chief Executive Officer Tony Fernandes and Airbus President and CEO Fabrice Brégier. The contract marks the first order placed by AirAsia for the largest model in the A320 Family. This latest announcement sees the total number of the A320 Family ordered by AirAsia rise to 575, reaffirming the carrier's position as the largest airline customer for the Airbus single-aisle product line. To date, over 170 A320s have already been delivered to the airline and are flying with its units in Malaysia, India, Indonesia, Japan and the Philippines.

portfolio of Airbus aircraft stands at a total of 267, of which 70 are wide-bodies (16 A330ceo, 25 A330neo, 24 A350-900, 5 A350-1000) and 197 are single-aisles (30 A320ceo, 22 A320neo, 27 A321ceo, 118 A321neo).

Standard Chartered Bank orders 10 Next-Generation 737-800s

Standard Chartered Bank has ordered 10 Next-Generation Boeing 737-800s, powered

by CFM56-7B engines. The order, valued at US\$960m at current list prices, was attributed to an unidentified customer on the Boeing Orders & Deliveries website. Speaking at the 2016 Farnborough International Airshow, Kieran Corr, Head of Aviation Finance at Standard Chartered, said: "We are excited about adding these new Boeing aircraft to our fleet. Our current portfolio consists of over 110 aircraft on operating lease to airline clients globally. We are committed to continuing to grow and diversify our client base over the next couple of years."

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Donghai Airlines announces intent to purchase 25 737 MAX 8s, five 787-9s

At the 2016 Farnborough International Airshow Boeing and Donghai Airlines announced the airline’s intent to purchase 25 737 MAX 8s and five 787-9 Dreamliners. The agreement is valued at more than \$4 billion at current list prices. Shenzhen-based Donghai Airlines previously ordered 15 Next-Generation 737-800s and 10 737 MAX 8s in 2013. Donghai continues to fulfill its strategic plan to convert its business model from cargo services to passenger services. Boeing will work with Donghai Airlines to finalize the details of the agreement. The order will be posted on Boeing’s Orders & Deliveries website once all contingencies are cleared.

Embraer delivers 26 commercial and 26 executive jets in 2Q16

During the second quarter of 2016 (2Q16), Embraer delivered 26 jets to the commercial aviation market and the same number to the business aviation market, of which 23 were light jets and 3 were large jets. On June 30, Embraer’s firm order backlog totaled US\$21.9bn.

Honda Aircraft Company receives FAA production certificate

Honda Aircraft Company has earned a production certificate from the United States Federal Aviation Administration (FAA). Honda Aircraft Company is building the HA-420 HondaJet, an advanced light jet, at its world headquarters in Greensboro, North Carolina. The Production Certificate grants Honda Aircraft the authorization to produce, flight test and issue airworthiness certificates for the HondaJet for customer deliveries. Honda Aircraft has been steadily ramping up production since receiving FAA type certification for the HondaJet last year.

Air Lease Corporation signs lease agreements with Virgin Atlantic Airways

Air Lease Corporation has signed long-term lease agreements for four new Airbus A350-1000 aircraft with Virgin Atlantic Airways. The aircraft are from ALC’s order book with Airbus, with two delivering in spring 2020 and two delivering in spring 2021. These new A350-1000s will replace Virgin Atlantic Airways’ Boeing 747 aircraft built in the 1990’s on routes from London across the Atlantic.

Boeing, Xiamen Airlines sign Memorandum of Understanding for 737 MAX 200s



Xiamen Airlines has signed a Memorandum of Understanding with Boeing for 737 MAX 200s *Photo: Boeing*

Boeing and Xiamen Airlines announced at the 2016 Farnborough International Airshow a Memorandum of Understanding for the purchase of up to 30 737 MAX 200 airplanes, valued at up to US\$3.39bn at current list prices. The airline, which is already a 737 MAX customer, sees the MAX 200 as a fit for its low-cost subsidiaries, including Jiangxi Airlines and Hebei Airlines. Once the order is finalized, the planes will be powered by CFM International’s LEAP-1B engine. Both parties will work closely to finalize the agreement, which requires the approval of Xiamen Airlines’ board and the China Southern Airline Group board, as well as the Chinese Government.

Iceland-based WOW air strengthens its all-Airbus fleet



Iceland-based WOW air places order for four A321s *Photo: Airbus*

WOW air, the low-fare airline based in Iceland, has signed a firm order for four A321s. The airline’s first purchase agreement directly with Airbus also makes WOW air a new Airbus customer. WOW air is an all-Airbus operator with 11 aircraft in its fleet to date and will grow to 12 by the end of 2016. WOW air selected the A321 for its wider cabin, low operating costs and excellent fuel efficiency. The aircraft will feature a single-class cabin layout with 200 seats. The airline has selected CFM engines and will operate the aircraft throughout Europe and North America.

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TAP Portugal places CFM LEAP-1A engine order

TAP Portugal and CFM International has announced the airline's order for 83 LEAP-1A engines to power its new fleet of Airbus A320neo/A321neo aircraft. With these new engines, Portugal's leading airline will improve its overall operating cost as well as its operational reliability. The aircraft order, scheduled to begin delivery in the third quarter of 2018, was announced in November 2015.

Indian Go Air signs for 72 A320neos

Indian low-cost airline Go Air has chosen Airbus for its further expansion plans by signing a Memorandum of Understanding (MoU) for 72 A320neo aircraft at the Farnborough International Airshow. Go Air, a Wadia Group company, announced its latest order following a similar agreement for 72 A320neos placed in 2011 bringing the total order book to 144 aircraft. The first two aircraft from this order were delivered in June. With the NEO induction, Go Air will expand its network and offer fliers better connectivity and continue its growth as one of India's preferred low-cost airline.

AerCap adds 10 additional Pratt & Whitney powered A320neo aircraft to fleet

AerCap has chosen the Pratt & Whitney PurePower Geared Turbofan engine to power an additional 10 Airbus A320neo aircraft. The order, originally announced as options, brings AerCap's PW1100G-JM engine powered fleet to 100 aircraft.

Volga-Dnepr Group confirms acquisition of 20 747-8 Freighters

Boeing and Volga-Dnepr Group, a leader in transportation of unique, outsize and heavy cargo, announced at the 2016 Farnborough International Airshow finalization of terms for the acquisition of 20 747-8 Freighters, which includes four aircraft that have already been delivered. Boeing also signed an agreement with the Group's subsidiaries AirBridgeCargo Airlines and Volga-Dne-

Porter Airlines signs for three more Bombardier Q400 Turboprops



Porter Airlines orders three more Q400 Turboprops

Photo: Bombardier

Bombardier Commercial Aircraft and Porter Airlines of Toronto have signed a firm purchase agreement for three Bombardier Q400 turboprop airliners. Based on the list price of the Q400 aircraft, the firm order is valued at approximately US\$93m. The three aircraft on firm order will increase Porter's Q400 aircraft fleet to 29 aircraft. Porter exclusively flies Q400 airliners. The first two deliveries are scheduled for December 2016.

pr Airlines to provide long-term logistics support for Boeing Commercial Airplanes and its partners using Boeing 747-8 and Antonov 124-100 freighters. Boeing and Volga-Dnepr Group will also enter into an agreement to look at future services opportunities.

Germania Group orders 25 Airbus A320neos

Germania Group has placed a firm order for 25 Airbus A320neos. The contract was signed at the Farnborough International Airshow by Karsten Balke, CEO of Germania and S.A.T., and Fabrice Brégier, President and CEO of Airbus. Germania Group operates an Airbus fleet of ten A319s and five A321s to destinations in Europe, North Africa and the Middle East from mainly German, Swiss and UK bases. Berlin-based Germania is also the charter service provider for Airbus' double daily flights between its largest production sites in Toulouse and Hamburg. The company has selected Pratt & Whitney's PurePower Geared Turbofan (GTF) engines to power its A320neo aircraft.

AWAS signs US\$320m agreement for CFM56-5B engines

AWAS has chosen CFM International's CFM56-5B engine to power 10 new Airbus A320neos (current engine option). The aircraft are part of a 15-aircraft order the company announced with Airbus on June 23 and the engine order is valued at US\$320m at list price. Dublin-based AWAS became a direct order CFM56-5B customer in 2008 with an order to power 45 firm and up to 55 option A320 family aircraft. Today, the company has more than 150 CFM-powered aircraft under management.

Boeing announces commitment for 30 737 airplanes from unidentified Chinese customer

Boeing has reported a commitment for 30 737 airplanes from an unidentified Chinese customer at the 2016 Farnborough Airshow. The commitment includes a mix of 737 MAX and Next-Generation 737 airplanes, valued at more than US\$3bn at current list prices.



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Air Lease Corporation signs order for six 737 MAXs

Air Lease Corporation has signed an order with Boeing for six 737 MAX 8s at the 2016 Farnborough International Airshow. Three of the orders are new, and three were previously attributed to an unidentified customer on the Boeing Orders & Deliveries website. ALC chose CFM International's LEAP-1B engine to power the new aircraft.

Embraer's Legacy 450 certified for 2,904 nm range

Embraer Executive Jets released that the Legacy 450 has received certification for an extended range of 2,904 nm (5,378 km). The improvement was approved by Brazil's ANAC (Agência Nacional de Aviação Civil), the FAA (U.S. Federal Aviation Administration) and EASA (European Aviation Safety Agency). The new range with four passengers onboard plus reserves is 329 nm (609 km) more than the current certified range. The Legacy 450's increased range was certified after minor modifications to the wing to accommodate more fuel, along with updates to the Fuel Control Unit (FCU) and avionics. The extra fuel tank capacity is retrofittable at no cost for the first aircraft serial numbers. The first aircraft with the increased range will be delivered this month.

Aergo Capital acquires Boeing 767-300ER from FLY Leasing and two Boeing 767-300ER aircraft from Lion Air

Aergo Capital has purchased one Boeing 767-300ER aircraft on lease to Air Italy from FLY Leasing. The transaction was originated and managed by BBAM. The aircraft will continue to be

TUI Group finalizes order for 10 Boeing 737 MAX 8 aircraft powered by LEAP-1B engines



TUI Group orders 10 Boeing 737 MAX 8 aircraft

Photo: Boeing

TUI Group has finalized an order for 10 Boeing 737 MAX 8 aircraft powered by CFM International's LEAP-1B engines. The engine order is valued at US\$200m at list price. The LEAP-1B engine flew for the first time on the Boeing 737 MAX on January 29, 2016. Since then, three more aircraft have been added to the test program and, to date, these three airplanes have logged a combined total of more than 300 test flights, including completing high altitude flight testing in La Paz, Bolivia.

operated by Air Italy on international commercial routes.

Aergo Capital also said that it has purchased two B737-900ER aircraft from PT Lion Mentari, operating as Lion Air. The acquisition was facilitated by Transportation Partners. The aircraft will continue to be operated by Lion Air on domestic and international commercial routes. This acquisition brings Aergo's fleet to 26 aircraft (including owned aircraft and aircraft under management).

Embraer and Arkia sign Letter of Intent for six E195-E2 jets

Nir Dagan, Arkia Israeli Airlines' President & CEO, and John Slattery, President & CEO, Embraer Commercial Aviation, announced at the Farnborough Airshow, a Letter of Intent (LoI) from the airline for up to ten E195-E2 jets, consisting of six firm orders and four purchase rights. With purchase rights exercised, the contract has a potential value of US\$650m, at the current list price.



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COMAC gets largest commercial order from CALC

Commercial Aircraft Corporation of China (COMAC), Friedmann Pacific Asset Management (FPAM) and China Aircraft Leasing (CALC), entered into a tripartite cooperative framework agreement in relation to the acquisition of ARJ21 aircraft (subject to further negotiation to enter into a formal binding agreement) at the Farnborough International Air Show. CALC will acquire 60 ARJ21-700 series aircraft (including a confirmed order of 30 ARJ21-700 aircraft and an option to purchase 30 ARJ21 series aircraft) from COMAC. The list price of the 60 ARJ21-700-series aircraft is approximately US\$2.3bn. This is the largest scale of single commercial order of ARJ21-700 aircraft for COMAC since its commercial operations. CALC will act as an aircraft lessor to provide value-added leasing solutions to an Indonesian-based airline, which FPAM intends to invest in, in building a pure- ARJ21 fleet. The first batch of aircraft of this bulk purchase will be delivered in the next one to two years, and the remaining aircraft of the confirmed order will be delivered in succession in the next five years. As such, FPAM’s Indonesian airline is expected to become the first foreign airline which operates a fleet solely of ARJ21-700 aircraft, leading China’s first home-grown passenger jet to enter into the Southeast Asian market. In addition, COMAC will establish an all-rounded services network in Indonesia, providing technical support, on-going maintenance and customer services for the ARJ21 Aircraft.

Boeing signs 10 new orders and commitments for Boeing Converted Freighters

On July 13, Boeing signed 10 new orders and commitments for its Boeing Converted Freighters (BCF) program. Cargo Air, based in Sofia, Bulgaria, and Lineas Aereas Suramericanas (LAS) Cargo, based in Bogota, Colombia, will each receive two 737-800BCFs. Air Algerie, based in Algiers, Algeria, signed a commitment for two 737-800BCFs. An unidentified customer ordered four 767BCFs.

Virgin Atlantic selects the A350 XWB as its future flagship

UK-based Virgin Atlantic Airways has selected the A350-1000, the largest member of the A350 Family, to become the latest aircraft in its fleet, operating from both London Heathrow and Gatwick airports. The airline is purchasing eight A350-1000s for deliveries commencing in 2019, and four new aircraft on long-term leases from ALC from 2020, including a lease “option” for a fifth aircraft. The airline will benefit from state-of-the-art technology and the latest cabin product innovations to

Air Europa orders 20 737 MAX 8s



Spanish carrier Air Europa signs for 20 Boeing 737 MAX 8s

Photo: Boeing

Boeing and Air Europa reported an order for 20 737 MAX 8s at the 2016 Farnborough International Airshow. The order was previously attributed to an unidentified customer on Boeing’s Orders & Deliveries website. Air Europa announced an order for 14 787-9 Dreamliners in 2015, the largest ever Boeing wide-body order from a Spanish carrier. Air Europa now has a combined total of 22 787-8s and 787-9s on order as it continues its transition to an all-Boeing long-haul fleet.

satisfy customer expectations. The aircraft will be deployed initially at London Heathrow to strengthen the trans-Atlantic network on existing business routes, and subsequently at Gatwick airport on leisure routes to the Caribbean, where Virgin Atlantic will provide three classes of customer service in the A350s distinctive Airbus ‘Airspace’ cabin, with roomy overhead bins and the latest concepts for ambience, comfort, service and design.

Synergy Aerospace finalizes order for 62 A320neo Family aircraft

Synergy Aerospace Corporation, the largest shareholder of Colombia-based Avianca and owner of Avianca Brasil, has finalized a Purchase Agreement with Airbus for 62 A320neo Family aircraft. These A320neos will be the base of the fleet renewal and network growth strategy for Avianca Brasil, and also marks over 1,000 Airbus aircraft sold in Latin America.

Pratt & Whitney wins order to power up to 200 A320neo Aircraft for Wizz Air

Wizz Air has selected Pratt & Whitney’s PurePower Geared Turbofan (GTF) engines to power its order of 110 firm Airbus A320neo family aircraft with purchase rights for up to 90 more. Wizz Air is the largest low-cost airline in Central and Eastern Europe, operates a fleet of 70 Airbus A320 and Airbus A321 aircraft, and offers more than 420

routes from 25 bases, connecting 124 destinations across 39 countries.

AWAS selects V2500 engines for up to five aircraft

AWAS has selected the V2500 engine to power three firm and two option Airbus A320ceo family aircraft. The V2500 engine is offered through IAE International Aero Engines AG, a multinational aero engine consortium.

Boeing, EGYPTAIR sign order for nine Next-Generation 737-800s

Boeing and EGYPTAIR signed an order for nine Next-Generation 737-800s at the 2016 Farnborough International Airshow. The deal was previously attributed to an unidentified customer on Boeing’s Order & Deliveries website. Eight of the airplanes will be financed by Dubai Aerospace Enterprise, headquartered in Dubai, United Arab Emirates.

TUI selects GEnx to power additional Boeing 787 Dreamliner

TUI Group has selected the GEnx-1B engine to power an additional Boeing 787 Dreamliner aircraft. TUI Travel and GE also expanded a TrueChoice Flight Hour agreement for engine main-

AIRCRAFT & ENGINE NEWS

tenance, repair and overhaul services to include these new GEnx-1B engines. The engine order and TrueChoice Flight Hour agreement are valued at more than US\$120m list price over the life of the contract.

LATAM Airlines reveals their first A320neo

The first A320neo for LATAM Airlines Group rolled out of the Airbus Final Assembly Line in Toulouse after the installation of Pratt & Whitney Pure Power PW1100-JM engines, revealing the airline's new coral and indigo livery. The aircraft will continue through the next stages of production, including completion of cabin furnishing, ground and flight tests. The aircraft is scheduled for delivery to LATAM Airlines Group in the near future. LATAM Airlines Brasil will become the first airline in South America to fly the A320neo. The airline group was the first A320neo customer in Latin America and has more than 250 Airbus planes in operation.

TRJet signs duo of deals with international customers at Farnborough

Making its debut at the Farnborough Air Show, new Ankara-based aviation company TRJet announced the company's most recent orders for the comprehensively modernized 328 Series aircraft. Signing a Letter of Intent at Farnborough International Airshow, the Istanbul Chamber of Commerce (ITC) committed to the purchase of 10 TRJ328 aircraft and Sentinel Aerospace Group of Singapore has confirmed five TRP328™ turboprop aircraft for special mission use. TRJet's 328 Series is an enhanced and technologically updated version of the acclaimed Dornier 328 aircraft known for its multipurpose use and extreme versatility. The only aircraft of its kind certified with both a jet and turboprop variation, the 328 Series is ideal for a wide variety of uses, spanning surveillance and rescue missions to passenger and VIP jets.

TRJet and Turkish Aerospace Industries (TAI) are developing initial agreements to support the highly anticipated Turkish Regional Aircraft Project. TRJet looks to leverage TAI's experience and success as a supplier to top-tier commercial aviation Original Equipment Manufacturers (OEM) to support the TRJ328 aircraft. Additionally, TRJet and TAI are actively discussing how to best utilize TAI's design capabilities to support the development of the new, larger, indigenously designed aircraft.

TRJet and Undersecretariat for Defence Industries (SSM) have reached agreement on certain principal terms of the contract for the highly-anticipated Turkish Regional Aircraft Project. SSM is the project's lead procurement agency, which in

BOC Aviation orders 18 IAE V2500 shipsets to power Airbus A320ceo aircraft



BOC Aviation orders IAE V2500 shipsets

Photo: BOC Aviation

BOC Aviation has ordered 18 shipsets of V2500 engines to power new Airbus A320ceo family aircraft already in the Company's order book. The aircraft have all been placed on lease with customers. The V2500 engine is offered through IAE International Aero Engines AG, a multinational aero engine consortium whose shareholders comprise Pratt & Whitney, a division of United Technologies Corporation; Pratt & Whitney Aero Engines International GmbH; Japanese Aero Engines Corporation; and MTU Aero Engines GmbH.

2015 executed a memorandum of understanding between TRJet and the Turkish Ministry of Transport, Maritime Affairs & Communications to produce the country's first regional jet with an order of up to 50 aircraft. Under the terms of the project, TRJet will first produce a modernized and enhanced version of the acclaimed Dornier 328 aircraft. TRJet intends to leverage to the greatest extent possible, the resources currently available within the Turkish aviation industry to bring its TRJ328 aircraft to market. The initial order is set for delivery to six end-users including the Turkish Ministry of Health and the Turkish Airports Authority. The aircraft will serve a number of strategic roles ranging from Air Ambulance, Special Mission, VIP, Airport Calibration and passenger transport, further demonstrating the unique capabilities of the 328 Series.

Norwegian selects 30 A321LRs for first transatlantic routes

Norwegian, one of the largest low cost carriers in Europe, has placed an order for 30 A321LRs with Airbus. This follows a commitment signed in June 2012 for 100 A320neo aircraft. The switch from 30 A320neos to 30 A321LRs will support the carrier's growth and modernization strategy and allows it to become the first low-cost carrier to operate the A321LR. Norwegian (the brand name of Norwegian Air Shuttle AS) operates a network across Europe, North America and Asia,

and is rapidly expanding its low-cost operations. The new aircraft will feature a single-class cabin layout, seating approximately 220 passengers.

Pratt & Whitney signs deal for up to 64 engines

Pratt & Whitney has signed a deal for PW1100G-JM and V2500 engines to power up to 32 A320 family aircraft with an undisclosed leasing company. The PW1100G-JM engine is offered by Pratt & Whitney. The V2500 engine is offered through IAE International Aero Engines AG.

Aer Lingus adds two A330-300s to its future fleet

Aer Lingus is expanding its fleet of A330-300s by two aircraft following a decision to exercise options. The carrier currently operates eight A330s, increasing to 10 aircraft this year, and up to 12 with this latest decision.

MTU reports strong 2016 Farnborough International Airshow results

This year's Farnborough International Airshow was a big success for MTU Aero Engines: Germany's leading engine manufacturer racked up

orders worth around one billion euros (approx. US\$1.1bn), with the PW1000G family of geared turbofan (GTF) engines doing particularly well. "The geared turbofan technology continues to be in very high demand among airlines," says MTU Chief Executive Officer, Reiner Winkler. "For MTU, the GTF will be the most important propulsion concept of the future. With our high market share in programs for short- and medium-range aircraft as well as regional and business jets, we also stand to benefit from the aftermarket business in future," Winkler continued to explain. The total volume of orders for engines in which MTU has a stake also includes propulsion systems for long-haul airplanes.

CFM finalizes CFM56-5B support agreement with LATAM Airlines Group

CFM International has finalized a long-term service agreement with LATAM Airlines Group (LATAM) to support the operation and maintenance of 35 of the group's CFM56-5B engines. Under the terms of the 12-year Rate Per Flight Hour (RPFH) service agreement, CFM will guarantee engine maintenance costs on a dollar per engine flight hour basis for the 35 CFM56-5B engines in the airline's fleet.

Lufthansa Technik Puerto Rico opens third bay



Lufthansa Technik Puerto Rico opened a third bay in July

Photo: LHT

Lufthansa Technik Puerto Rico has started operating its third bay at the beginning of July. The new bay is a heavy maintenance line, performing C-Checks and cabin modifications similar to the existing two operating bays in the hangar. It will be the second line for Spirit Airlines. There are already 15 checks scheduled in 2016 for the new bay and 17 for 2017. A third standalone cabin modification line for Spirit Airlines is planned to open in September 2016. Lufthansa Technik Puerto Rico started its operation in July 2015 and has currently a workforce of 270 employees. It is planned to grow up to a workforce of 400 in 2017.

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Norsk Titanium to build industrial-scale aerospace additive manufacturing plant in New York

Norsk Titanium AS, a pioneering supplier of aerospace-grade, additive-manufactured, structural titanium components released on July 11, that the State of New York, in partnership with SUNY Polytechnic Institute, has placed an order for an initial lot of 20 of Norsk Titanium's patented MERKE IV Rapid Plasma Deposition (RPD) machines. The order is in accordance with an approved state budget allocation to facilitate Norsk Titanium's US subsidiary building and operating the world's first industrial-scale metal additive manufacturing plant in New York. Plattsburgh, New York has

been selected as the location for the first Rapid Plasma Deposition factory, which is supposed to be operational by the end of 2017. Under the terms of the deal, Norsk Titanium US will provide additional investment into the Plattsburgh operation that is expected to bring the total program commitment to the US\$1bn dollar level over the initial 10-year period of operations. A US\$125m New York investment in the Norsk Titanium US Plattsburgh factory was approved in the 2016-2017 State budget and first highlighted by Governor Cuomo on April 1, 2016 during the North County Highlights budget address in Albany. Norsk Titanium US is also partnering with the North County Chamber of Commerce in Plattsburgh to support and promote the successful launch and growth of Norsk's industrial-scale factory including workforce training, economic development and STEM outreach

including specific educational programs for SUNY Plattsburgh, local community colleges and other schools in the region. Norsk Titanium's proprietary RPD™ process works by feeding titanium wire into a set of plasma torches protected by a cool argon environment that has made it possible to replace legacy forged parts, which take months and even years to develop and produce, with precision, additive manufactured components. The company has signed numerous contracts with the top echelon of aerospace manufacturers and tier-1 suppliers interested in leveraging RPD™ to cut cost and lead time from airframe and engine programs. Norsk Titanium RPD components have equivalent strength to forgings, but are delivered inexpensively and efficiently, with unprecedented part cost and design-to-market speeds.

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Boeing to manufacture 777X components with composite material made in U.A.E.

Boeing has reported that it will source carbon fiber pre-impregnated (prepreg) composite material for the Boeing 777X from a new joint venture formed by Mubadala Development Company and Solvay. Boeing is the first customer for the Mubadala-Solvay joint venture, which will produce primary structure composite material for use in manufacturing the 777X empennage and floor beams. Mubadala and Solvay are planning for the joint venture to be operational by 2021 in a new facility built in Al Ain, U.A.E. Since 2009, Boeing and Mubadala have signed several agreements to advance their collaboration in mutually beneficial ways, including in aerospace composites manufacturing. In 2013, Boeing and Mubadala announced a new Framework Strategic Agreement to increase the long-term role of Mubadala as a direct supplier to Boeing, including support as Mubadala developed prepreg manufacturing in the U.A.E.

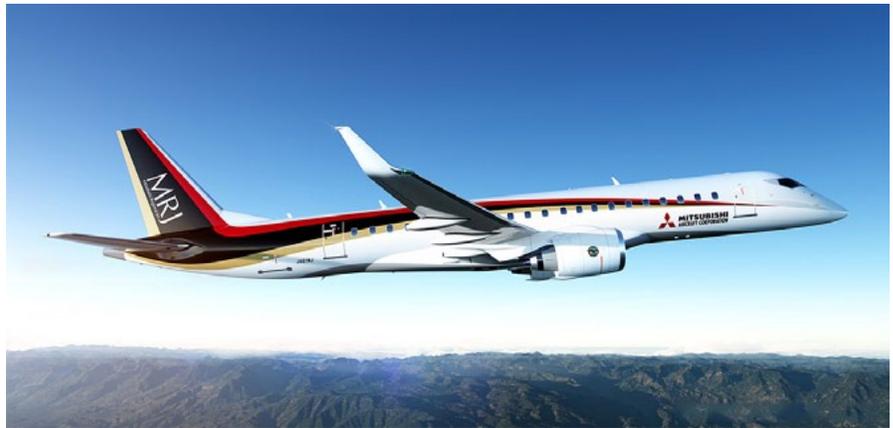
Asiana Airlines selects UTC Aerospace Systems to provide landing gear services

UTC Aerospace Systems has been selected by Asiana Airlines to provide landing gear maintenance, repair and overhaul (MRO) services for its fleet of Boeing 747-400 aircraft. The work will be performed at the UTC Aerospace Systems Center of Excellence in Miami, a leader in performing overhauls on Boeing landing gear. Asiana Airlines Inc., established in 1988, is a Star Alliance member airline in South Korea. Headquartered in Seoul, the airline's domestic hub is at Gimpo International Airport, and its international hub is at Incheon International Airport.

NORDAM adds new product type to Airbus portfolio

NORDAM CEO Meredith Siegfried Madden has announced the aerospace company has been awarded an Airbus contract to manufacture a lightweight composite part that supports the A350-1000 aircraft's cargo floor. The new contract represents NORDAM's first provision of a structural component for Airbus. NORDAM's Interiors & Structures Division fabricates the part – known as a 'crutch' – from HexMC, a proprietary Hexcel product that transforms AS4 carbon fiber strips into a randomly-oriented mat, which then can be cut and compression-molded into complex ge-

Mitsubishi Aircraft names PEMCO preferred MRO service provider for MRJ



Mitsubishi Aircraft names PEMCO preferred MRO service provider for MRJ

Photo: PEMCO

Pemco World Air Services has been named a preferred MRO service provider of the MRJ aircraft by Mitsubishi Aircraft Corporation. As an alternative solution for airlines performing airframe MRO in-house or through an outsourced third party, Mitsubishi Aircraft and PEMCO will offer airframe related MRO services to North American MRJ customers, such as applicable letter and heavy checks, structural repairs, modifications, and warranty work. It is the intent of both companies to provide best-in-class services, improved efficiencies, and cost advantages to MRJ aircraft operators. The MRJ has received over 400 aircraft orders, including options and purchase rights. Mitsubishi Aircraft plans to deliver the first MRJ aircraft in mid-2018 to launch customer All Nippon Airways.

Spirit AeroSystems installs one of the world's largest autoclaves at its Wichita, Kan., facility



Spirit AeroSystems is installing one of the world's largest autoclaves at its Wichita, Kan., facility
Photo: Spirit AeroSystems

Spirit AeroSystems is installing one of the world's largest autoclaves at its Wichita, Kan., facility to support increasing production levels in the company's composite fuselage business and to grow overall composite production capability. The new autoclave has a 30-foot diameter and an internal volume of more than 78,000 cubic feet. The autoclave, which is 120 feet long, is one of nearly 40 at Spirit's Wichita location. The addition is part of a 94,000 ft² expansion to Spirit's Composite Fuselage Facility, where the company makes the carbon-fiber nose section for Boeing's 787 Dreamliner. An autoclave is a pressure chamber used to cure composite material. Spirit has composite expertise for large, complex aerostructures as well as jet engine nacelles. Spirit AeroSystems is one of the largest manufacturers of aerostructures in the world with both design and build capabilities for a variety of applications.

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ometries. The Tulsa-based company is one of only two licensed molders of this unique material worldwide. The first A350-1000 started final assembly process in Toulouse earlier this year; NORDAM crutch program has been ramping up since 2015 with more than 1,000 parts already completed to date. Under the terms of the crutch supply agreement, full production volume will entail manufacture of more than 1,500 crutches per year over the life of the program. No additional NORDAM personnel or equipment are needed to fulfil this production commitment.

Norwegian and Boeing sign agreement for GoldCare Coverage

Boeing has released that Norwegian has committed to GoldCare coverage for its 737 MAX fleet and expanded coverage for the airline's entire 787 Dreamliner fleet. The new services agreements represent the largest commercial services order in Boeing history. Norwegian will launch Boeing's 737 MAX GoldCare offering when its first airplane is delivered in May 2017. Under the agreement, Boeing will provide coverage through 2034.

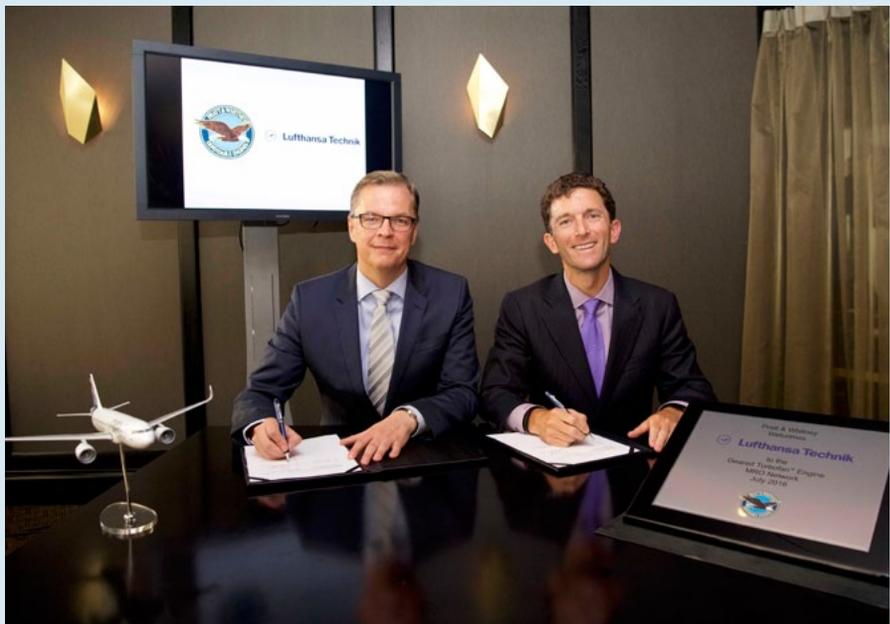
GE signs new TrueChoice Flight Hour agreements with Emirates, Austrian Airlines and Turkish Airlines

Emirates has extended its TrueChoice Flight Hour agreement with GE for the maintenance, repair and overhaul of 54 GE90-115B engines that power its Boeing 777-300ER aircraft. The extended agreement is valued at more than US\$400m over the life of the contract. Emirates operates the largest fleet of Boeing 777 aircraft with 118 in service flying to six continents. The airline continues to build on a successful partnership with GE on technology sharing and innovation in engine maintenance and related services, contributing significantly to the aviation industry.

Austrian Airlines and GE have expanded a TrueChoice Flight Hour agreement to provide maintenance, repair and overhaul services to 10 GE90-90B engines that power Austrian Airlines' Boeing 777-200ER aircraft. The agreement is valued at US\$70m over the life of the contract.

Turkish Airlines and GE have signed extensions to its TrueChoice Flight Hour and TrueChoice Overhaul agreements for the CF6-80E engines that power its fleet of seven Airbus A330 aircraft. Along with the maintenance, repair and overhaul services, GE Aviation will also part-

Pratt & Whitney and Lufthansa Technik sign strategic agreement



Dr. Johannes Bussmann (chairman of the Executive Board of Lufthansa Technik) and Matthew Bromberg (president Pratt & Whitney Aftermarket) during the signing ceremony
Photo: P&W

Lufthansa Technik has signed a strategic network agreement to become a key member of the Pratt & Whitney Geared Turbofan (GTF) engine MRO network offering the full scope of MRO services on PW1100G-JM and PW1500G engines. The Pratt & Whitney GTF engine network currently includes Pratt & Whitney and its GTF engine collaborators, MTU Aero Engines and Japanese Aero Engines Corporation. Together with Lufthansa Technik, these companies will deliver the highest level of maintenance support and value to customers with facilities strategically located worldwide. "The PW1000G family will be one of the main engine types in commercial aviation for the next decades. Lufthansa Technik will serve the full scope of MRO services and will bring long-lasting and leading expertise in engine overhaul, engine parts repair, and engineering support to this co-operation," said Dr. Johannes Bussmann, chairman of the Executive Board of Lufthansa Technik. Furthermore, the two companies announced that Lufthansa Technik will become Pratt & Whitney's principal provider of mobile engine maintenance services for V2500, PW1100G-JM, PW1500G and PW1900G engines. This new cooperation will provide Pratt & Whitney customers with more-efficient and cost-effective engine maintenance.

ner with Turkish Airlines on leadership training as part of these agreements, which are valid until 2026. With a fleet of more than 300 aircraft, Turkish Airlines is the major airline in Turkey and operates routes to the Americas, Europe, Middle East, Asia and Africa.

Spirit AeroSystems upgrades historic Plant 2

Since 2014, Spirit AeroSystems has invested in upgrades to its historic Plant 2 and its Wichita facilities to support growing demand for its products. Spirit builds 70% of the 737 structure in Plant 2, including the entire fuselage

of the airplane. "We are constantly looking at ways to modernize our factory and support our customer's production needs," said Shawn Campbell, Spirit vice president of the 737 program. "The factory of the future will look much different than it does today. Many investments the company is making will ensure even better quality than we deliver today." The upgrades include projects like installation of robotic drilling and fastening, expansion of the propulsion manufacturing facility, building additional rail spurs for increased transportation needs and a re-investment in the facilities across the Wichita campus. Since Spirit's formation in 2005, it has doubled its 737 output while using essen-

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tially the same footprint. Continued increased production rates will require additional modernization to the historic Plant 2 building and a pipeline of employees to support this record demand. Spirit is responsible for the Boeing 737 fuselage, nacelles, pylons and wing flaps and slats. Spirit's history with the program dates back to the 1960s, when the 737 Classic launched and the site was a Boeing facility. The company transitioned to work on the 737 Next Generation program beginning in 1996, and the evolution continues today, as Spirit enters production of the 737 MAX.

AJW Aviation renews power-by-the-hour contracts with Air Blue and Air Peace

AJW Aviation, the integrated aircraft support specialist, has renewed power-by-the-hour contracts with Air Blue, Pakistan, and Air Peace, Nigeria. Air Blue first signed an agreement with AJW in 2005, becoming one of the organization's longest-standing PBH customers. It is testimony to the reassurance and flexibility provided by the service that they are moving into their eleventh year of sustained support. Air Blue has now extended its PBH contract for a further five years in support of their fleet of three Airbus A320s and four Airbus A321 aircraft.

Engine Alliance adds two new engine overhaul centers to MRO network

Engine Alliance (EA) is adding two new engine overhaul centers to the GP7200 MRO network in Dubai and Singapore: Emirates Engine Maintenance Centre (EEMC) and Pratt & Whitney Eagle Services Asia (ESA), respectively. These new facilities will add capacity to accommodate the growing fleet of GP7200 engines, as they begin to enter their first performance restoration shop visits. Engine Alliance is also expanding capability in Singapore. Previously a center of excellence for GP7200 low pressure compressor (LPC) overhauls, ESA will now become a full engine overhaul center.

Lufthansa Technik signs agreements for GE9X and GENx-2B services

Lufthansa Technik and GE Aviation signed new long-term agreements for maintenance services for the GE9X and GENx-2B engines as part of a continued effort to expand maintenance choice and shop capacity for customers operating the latest generation of engines.

DHL signs A330-300P2F conversion launch contract with EFW



DHL signs A330-300P2F conversion launch contract with EFW

Photo: EFW

Elbe Flugzeugwerke (EFW) reported the signature of the Airbus A330-300P2F (passenger-to-freighter) conversion launch contract with express and logistics company DHL Express. Under the agreement, EFW will convert four Airbus A330-300 passenger aircraft to a 26-pallet cargo configuration, capable of carrying up to 61 metric tonnes of payload. The first aircraft will be inducted into EFW's Dresden-based facilities in July 2016, scheduled for redelivery to DHL Express by end 2017. The A330P2F conversion programme, launched in 2012, is a collaboration between Airbus, EFW and ST Aerospace. ST Aerospace, as the programme and technical lead for the engineering development phase, is responsible for applying for the supplemental type certificates for the freighter conversions from the European Aviation Safety Agency and the US Federal Aviation Administration. Aircraft OEM Airbus contributes to the programme with OEM data and certification support, while EFW leads the industrialization phase and marketing for the freighter conversion programme.

The GE Branded Services Agreements (GBSA) for the GE9X and GENx-2B include comprehensive TrueChoice Materials agreements and provisions for technical support and assistance on overhaul workscooping, component repair licenses, joint repair development and training. The agreements facilitate establishment of a planned GE Aviation and Lufthansa Technik joint venture overhaul facility due to open in 2018.

TRJet signs duo of deals with international customers at Farnborough

Making its debut at the Farnborough Air Show, new Ankara-based aviation company TRJet announced the company's most recent

orders for the comprehensively modernized 328 Series aircraft. Signing a Letter of Intent at Farnborough International Airshow, the Istanbul Chamber of Commerce (ITO) committed to the purchase of 10 TRJ328 aircraft and Sentinel Aerospace Group of Singapore has confirmed five TRP328™ turboprop aircraft for special mission use. TRJet's 328 Series is an enhanced and technologically updated version of the acclaimed Dornier 328 aircraft known for its multipurpose use and extreme versatility. The only aircraft of its kind certified with both a jet and turboprop variation, the 328 Series is ideal for a wide variety of uses, spanning surveillance and rescue missions to passenger and VIP jets.

TRJet and Turkish Aerospace Industries (TAI) are developing initial agreements to support

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the highly anticipated Turkish Regional Aircraft Project. TRJet looks to leverage TAI's experience and success as a supplier to top-tier commercial aviation Original Equipment Manufacturers (OEM) to support the TRJ328 aircraft. Additionally, TRJet and TAI are actively discussing how to best utilize TAI's design capabilities to support the development of the new, larger, indigenously designed aircraft.

TRJet and Undersecretariat for Defence Industries (SSM) have reached agreement on certain principal terms of the contract for the highly-anticipated Turkish Regional Aircraft Project. SSM is the project's lead procurement agency, which in 2015 executed a memorandum of understanding between TRJet and the Turkish Ministry of Transport, Maritime Affairs & Communications to produce the country's first regional jet with an order of up to 50 aircraft. Under the terms of the project, TRJet will first produce a modernized and enhanced version of the acclaimed Dornier 328 aircraft. TRJet intends to leverage to the greatest extent possible, the resources currently available within the Turkish aviation industry to bring its TRJ328 aircraft to market. The initial order is set for delivery to six end-users including the Turkish Ministry of Health and the Turkish Airports Authority. The aircraft will serve a number of strategic roles ranging from Air Ambulance, Special Mission, VIP, Airport Calibration and passenger transport, further demonstrating the unique capabilities of the 328 Series.

Latvia's airBaltic signs up for Bombardier C Series Aircraft Smart Parts Program

Latvian flag carrier Air Baltic has selected Bombardier's Smart Parts Program to provide component support for its fleet of 20 all-new C Series aircraft. The five-year agreement positions airBaltic as the second customer for the C Series aircraft Smart Parts Program and will provide the airline with comprehensive component maintenance, repair and overhaul (MRO) services, access to a strategically located spare part exchange pool, and an on-site inventory based at the airline's main hub in Riga, Latvia. airBaltic is the launch operator for the CS300 aircraft, and the airline's first aircraft is scheduled to be delivered by Bombardier in the fourth quarter of 2016. airBaltic has ordered 20 CS300 aircraft.

EGYPTAIR signs GE's TrueChoice agreement for overhaul consulting

EGYPTAIR and GE have signed a TrueChoice

Materials agreement for maintenance, repair and overhaul consulting services to assist in the development of overhaul capabilities for the CFM56-7B engine. The comprehensive agreement covers technical support and consulting for MRO operations, facility readiness, tooling optimization and other necessary services required to achieve facility certification.

Volga-Dnepr Group and GE announce global strategic partnership

Volga-Dnepr Group and GE Aviation today signed a Memorandum of Understanding (MoU) to develop a strategic partnership that will utilize the two companies' unique strengths and expertise to develop collaborative solutions to benefit each company and their customers. The partnership covers the expansion of Volga-Dnepr Group's TrueChoice Flight Hour agreement with GE for the maintenance, repair and overhaul of 88 additional GENx-2B engines that power its Boeing 747-8 Freighters. The TrueChoice Flight Hour agreement is valued at close to US\$1.4bn over the life of the contract. In addition, the MoU incorporates a long-term Logistic Support Program in which Volga-Dnepr Group's Boeing 747-8F and An-124 freighters will provide transportation support for GE Aviation.

Dowty Propellers begins delivery of propeller systems for Antonov's AN-132D

Dowty Propellers has started component deliveries for propeller systems that will equip the demonstrator for Antonov's new AN-132 twin-engine transport aircraft. Based on an agreement signed earlier this year, the twin-engine AN-132D will utilize Dowty Propellers' R408 propeller systems, which already are in widespread service worldwide. For the AN-132D's ground and test flights, Dowty Propellers is providing two R408 propeller systems for the Ukrainian aircraft manufacturer's demonstrator, along with a spare.

ST Engineering's aerospace arm secures new contracts worth US\$770m in 2Q2016

Singapore Technologies Engineering released that its aerospace arm has secured new contracts worth US\$770m in the second quarter (2Q) of 2016, for projects ranging from airframe maintenance and cabin interiors, to engine wash, and component repair and overhaul. Included in the 2Q2016 contracts are line and heavy airframe maintenance for commercial airlines and military operators,

as well as cabin interior modifications for various customers. For component support, the aerospace sector signed a general trade agreement with a European airline, for the Boeing 787 nacelle component exchange and repairs, while securing landing gear work for a military operator. Multiple contracts have also been sealed with customers in Asia Pacific, Europe and the US for EcoPower engine wash services.

StandardAero renews TRUEngine MRO status

StandardAero has renewed its independent TRUEngine authorized maintenance repair and overhaul (MRO) provider agreement for CF34 and CFM56 engines, demonstrating an ongoing commitment to OEM quality engine maintenance. As an authorized TRUEngine MRO provider, CFM56 or CF34 engines overhauled by StandardAero are eligible for TRUEngine status, allowing the engine serial numbers to be included in the TRUEngine database made available to industry appraisers and potential buyers.

Magnetic MRO opens 5 new outstations

Magnetic MRO, the Estonia-headquartered Total Technical Care MRO organization, completed the launch of 5 new Line Maintenance outstations. As part of its international growth strategy outside of its Tallinn home base, the company has expanded its network of operations by adding Milan Malpensa, Vilnius, Copenhagen, Oulu, and Gällivare airports to its operations map. "Magnetic MRO long-term strategy is to focus on new generation aircraft, which demand less Heavy Maintenance hangar work, more Line Maintenance work where the aircraft operate", says Jonas Butautis, CEO of Magnetic MRO. "This strategic imperative is behind the fast expansion of our Line Maintenance network across Europe and, in the near future, across other regions."

GE Aviation finalizes GE9X engine program participant agreements

GE Aviation has finalized agreements with IHI Corporation, Safran Aircraft Engines and Safran Aero Boosters as participants in the GE9X engine program. GE9X engine program participants play a significant role, producing a combined total of about a 25 percent share of the components for the GE9X engine that will power the Boeing 777X aircraft.

IHI: With headquarters in Japan, IHI is responsible for the design and manufacturing of various components in the low-pressure turbine

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and the fan mid-shaft. IHI is a participant on the CF34, GE90, GEnx and Passport engine programs and has been producing GE military engines under license for more than 60 years.

Safran Aircraft Engines: Based in France, Safran Aircraft Engines is responsible for the design and manufacturing of the 3-D-woven composite forward fan case, the turbine rear frame and will participate with GE on the composite fan blades through CFAN, its 50/50 joint venture company. Safran Aircraft Engines produces the CFM56 and LEAP engine within CFM International, the 50/50 joint venture company with GE and is a participant on the CF6, GE90 and GP7200 engine programs.

Safran Aero Boosters: Headquartered in Belgium, Safran Aero Boosters is responsible for the design and manufacturing of the low-pressure compressor as well as the manufacturing of the fan disk. Safran Aero Boosters is a participant in the CF34, GEnx and Passport engine programs.

MTU Aero Engines AG is another GE9X engine program participant and is responsible for the design and manufacturing of the turbine center frame.

Liebherr-Aerospace on board with TRJet for 328 Series

Liebherr-Aerospace signed two contracts regarding the TRJet's 328 Series at the Farnborough Airshow. The company will supply the complete air management system for the aircraft. The scope includes design and service of the bleed air system, precooling, cabin and cockpit environmental conditioning, as well as the pressurization system. It will be operated by a single integrated controller and ensures a safe, healthy and comfortable environment during flight. Furthermore, Liebherr-Aerospace will supply the flap and spoiler actuation subsystem for the 328 Series.

Cathay Pacific Airways signs up for Satair Group's IMS solution

Satair Group's "Integrated Material Services" (IMS) has won their first A350XWB customer, Cathay Pacific Airways, and has started their new service offering for the airline's fleet of 48 Airbus A350XWB aircraft. Working in conjunction with the recently announced long-term agreement with Airbus to provide Flight Hour Services (FHS), Satair Group will operate the IMS, which was signed through the Airbus Flight Hour Services Limited, to provide an expendable material management solu-

tion. Under the IMS banner, Satair Group now provides a fully integrated end-to-end supply chain package for Cathay Pacific's expendable material. This includes planning, sourcing, purchasing, logistics and inventory management – approximately 15,000 part numbers in total. Satair Group has already started service with the supply of expendable material for Cathay Pacific's flight simulators, initial stocking of outstations and Cathay's central stock in Hong Kong to support the delivery of the first aircraft at the end of May.

Lufthansa Technik to open component warehouse in London

Lufthansa Technik AG is opening a new warehouse for component supply at London Heathrow Airport. With this local presence in the United Kingdom, Lufthansa Technik is further consolidating its supply network for customers within Europe and significantly shortening the supply times for British customers. In opening this new warehouse location, Lufthansa Technik is underlining the importance of its British customers and the British aviation market. The state-of-the-art facility, in operation 24/7/365, and the seamlessly integrated transport concept allow the company to even better fulfill the high quality expectations of its customers.

AFI KLM E&M extends services for Thai Airways A350s

AFI KLM E&M has won a major call for tenders from Thai Airways (THAI), covering component support for its future fleet of Airbus A350s, with twelve aircraft joining the fleet from this summer. AFI KLM E&M was selected as MRO for Thai Airways, providing a wide array of services including access to its global pool of A350 components, maintenance, logistics, and a comprehensive material support at Thai Airways main base in Bangkok.

HAECO Americas signs LOI with Mitsubishi Aircraft

HAECO Americas, a subsidiary of the HAECO Group with headquarters in Greensboro, North Carolina, USA, confirmed has signed a letter of intent with Mitsubishi Aircraft Corporation at the Farnborough International Airshow to become a preferred airframe Maintenance, Repair and Overhaul (MRO) partner for the Mitsubishi Regional Jet (MRJ) in North America. The collaboration will provide MRJ customers with a best-in-class airframe MRO service solution through an established authorized maintenance organization, capable

of delivering full-spectrum support. Through Mitsubishi's preferred MRO provider network, HAECO Americas will offer scheduled and unscheduled airframe maintenance as well as special maintenance services, including service bulletin incorporation and post-production modification.

FINANCIAL NEWS

Rolls-Royce Holdings acquires outstanding stake in ITP from SENER

Rolls-Royce Holdings will purchase the outstanding 53.1% shareholding in Industria de Turbo Propulsores SA ("ITP") owned by SENER Grupo de Ingeniería SA ("SENER"). The acquisition strengthens Rolls-Royce's position on its Civil Aerospace large engine growth programmes by capturing significant additional value from its long-term aftermarket revenues, including the high volume Trent 1000 and Trent XWB engines, where ITP has played a key role as a risk and revenue sharing partner. It also enhances the group's manufacturing and services capabilities and adds value to the defense aerospace business, particularly on the TP400 and EJ200 programmes. Rolls-Royce will pay SENER a total consideration of €720m (US\$791m), subject to due diligence, for the outstanding 53.1% of ITP. This follows a decision by SENER to exercise its put option. Under the existing shareholder agreement, consideration will be settled over a two-year period following completion in eight equal, evenly spaced instalments. The agreement allows flexibility to settle up to 50% of the consideration in the form of Rolls-Royce shares. Final consideration as to whether the payments will be settled in cash, or cash and shares will be determined by Rolls-Royce during the payment period. Completion, which is subject to regulatory clearances, is expected in early 2017.

HNA Aviation to acquire majority stake in SR Technics

SR Technics reported that sole shareholder Mubadala, the Abu Dhabi investment and development company, has agreed to sell an 80% stake in the company to HNA Aviation, a global enterprise group based in Haikou, China. SR Technics, a world leading MRO service provider for the civil aviation sector, will remain a standalone business within HNA Aviation's portfolio of aviation business. Mubadala, a shareholder since 2006, will retain a 20% stake in the company.

MILITARY AND DEFENCE

UTC Aerospace Systems to deliver new wheels and brakes to U.S. Air Force for 475 F-15 aircraft

UTC Aerospace Systems will deliver new wheels and brakes to the U.S. Air Force for 475 of its F-15 aircraft, with the first deliveries scheduled to begin in August. The wheels and brakes feature the latest in technology and industry-leading innovation. The new carbon brakes will provide four times longer life than the current carbon brakes, through the use of proprietary DURACARB carbon heat sink material. The boltless wheels employ a lock-ring design, substantially lowering maintenance time and cost, and requiring fewer parts, when compared to traditional bolted aircraft wheels. The equipment will be offered in two versions – one for use on the F-15C/D aircraft, and the other for use on the heavier F-15E aircraft. Both are similar designs and have many parts in common. The US\$22m U.S. Air Force contract was awarded in November 2014.

GE's T700 engine to power United Kingdom's AH-64E fleet

The United Kingdom has asked the government of the United States of America to purchase on its behalf 50 Boeing AH-64E Apache helicopters that will be equipped with GE's T700-701D engines. This will represent the first time GE has sold an off-the-shelf military engine to the United Kingdom's Ministry of Defence. In August 2015, the United States Defense Security Cooperation Agency (DSCA) announced the UK's request to re-manufacture the British Army Air Corps' fleet of Apache Mk 1 aircraft, upgrading to the advanced AH-64E Guardian model. In addition to T700-701D engines, GE Aviation also provides the electrical power management system and avionics for the Apache, delivering more than 3,000 systems to date. H+S Aviation, based in Portsmouth, UK, may provide engine service support to the upgraded UK Apache fleet. H+S Aviation is a GE-approved provider of repair and overhaul services for gas turbine engines including the GE CT7/T700 turboprop and turboshaft engines.

Rolls-Royce, Pratt & Whitney team up to provide comprehensive support for UK F-35B at RAF Marham

Rolls-Royce and Pratt & Whitney will join forces to provide comprehensive technical support at Royal Air Force Marham for F135

engines and the LiftSystems on the UK's F-35B Lightning II aircraft. The two industry-leading engine companies will institute a Performance-Based Logistics (PBL) approach to sustainment for the propulsion systems. A PBL contracting structure incentivizes contractors to focus on outcomes such as propulsion system availability, leading to greater efficiencies, mutual cost reductions, and operator benefits. The companies formalized the new working relationship by signing a Memorandum of Understanding, agreeing to increase levels of cooperation and improve synergy as they join forces in support of the customer. The agreement defines how the companies will collaborate and grow their sustainment capabilities. Pratt & Whitney, lead propulsion integrator for the F-35 program, will focus primarily on system-level performance of its F135 engines. Rolls-Royce will lead on support for the LiftSystem technology the company developed and produced, while also undertaking some delegated support work on the main F135 engine. The two companies will also look to duplicate this support model for other F-35B customers.

Embraer and Boeing to collaborate on worldwide sales, support of KC-390 Medium Airlift

Embraer and Boeing have signed a teaming agreement to jointly market and support the KC-390, a multi-mission mobility and aerial refueling aircraft. Under the agreement the companies will together pursue new business opportunities, both for the aircraft itself and for aircraft support and sustainment. Embraer will provide the aircraft while Boeing will be responsible for in-service support. The agreement expands an existing collaboration between the two companies; in 2012, the two companies first announced their intention to jointly market the aircraft.

Sikorsky, PZL Mielec and PGZ ink new agreement for BLACK HAWK co-operation

Sikorsky, a Lockheed Martin company, and its subsidiary, PZL Mielec, have signed a memorandum of understanding with Polska Grupa Zbrojeniowa (PGZ), one of the largest defense groups in Europe, under which PGZ companies would have significant involvement in the S-70i BLACK HAWK helicopter programme if Sikorsky and PZL Mielec are selected by the Polish government to provide a fleet of multirole helicopters. The agreement has the potential to extend Lockheed Martin's involvement with Polish industry to include PGZ

companies in the development and test of armament solutions for international BLACK HAWK helicopters and the supply of components and assemblies for aircraft and other products manufactured by Sikorsky and PZL Mielec. PGZ will support the positioning of the multi-role S-70i BLACK HAWK helicopter in Poland as well as potential export markets in Central and Eastern Europe. The agreement is subject to a decision by Poland's government to procure BLACK HAWK helicopters, which are produced at PZL Mielec.

Crane Aerospace & Electronics appoints new distributor

Crane Aerospace & Electronics has appointed AAR, a leader in aftermarket inventory support, as their parts distributor and repair provider for Crane Foreign Military Sales, exclusive of Japan and Israel. The distribution and sales agreement covers engine and fuel, brake control, and secondary power systems that support military aircraft platforms including the F-15, F-16, F/A-18, C-130 and KC-10. AAR was also selected by Crane to provide commercial retrofit and spare part sales for a key fuel system component on the MD-11/DC-10 fleet.

IAI delivers the 10th F-35 Fighter Outer Wing ship-set to Lockheed Martin

Lockheed Martin and Israel Aerospace Industries (IAI) marked the delivery of the 10th F-35 Joint Strike Fighter Outer Wing ship-set by IAI to Lockheed Martin. IAI has produced and delivered to Lockheed Martin 10 Outer Wing sets so far, and plans to deliver a total of 18 sets by the end of 2016. IAI is scheduled to produce a total of 811 pairs of F-35A wings, with a potential value of over \$2 billion, by 2034. Following execution of the initial contract in 2014, IAI inaugurated a state-of-the-art F-35 wing production line, investing in the automated systems, advanced infrastructure and technologies necessary to meet the aircraft's innovative design. The production line meets all of the customer's quality targets, including zero FOD (Foreign Objects Debris). The wings' upper and lower skins are made of composite materials, unique to the F-35. IAI is currently investing in infrastructure and machinery to manufacture the skins and other metallic parts in-house.

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Eric Schulz, Rolls-Royce, President – Civil Aerospace (left) and Homaid Al Shemmari, Mubadala, Chief Executive Officer, Aerospace & Engineering Services in front of a Trent XWB engine at Farnborough Air Show
 Photo: Rolls-Royce

Rolls-Royce and **Mubadala Development Company**, the Abu Dhabi-based investment and development organization, have announced further details of a new Approved Maintenance Centre (AMC) in the Emirate and have confirmed plans for a manufacturing facility that will produce aero engine components. Rolls-Royce is committed to developing a competitive, capable and flexible Trent Service Network to support the growing number of Trent engines that will enter service as it increases its installed base to more than 50% of the wide-body passenger market. This will be the second AMC in which Rolls-Royce does not hold an equity stake. The first, Delta TechOps, was announced in October 2015. Mubadala will create a purpose-built facility that will carry out work on the Trent XWB engine that powers the Airbus A350 XWB. The Middle East region is forecast to have one of the world's largest concentrations of Trent XWB engines with more than 20% of the 1,600 sold to date due to be operated by airlines in the region, including the 62 A350s to be operated by Abu Dhabi-based Etihad Airways. Rolls-Royce is also creating a world-class, competitive global supply chain within growth regions and key strategic markets, which gives Rolls-Royce the flexibility it requires as it increases engine production. To support those developments, Mubadala will open a new manufacturing centre that will deliver parts for the Trent engine family, including the Rolls-Royce Trent XWB. This new manufacturing center will complement the existing disk manufacturing invest-

ment that Rolls-Royce has previously made in Washington, UK and Crosspointe, US. The announcement, made at the Farnborough Airshow, follows the Strategic Framework Agreement signed at the Dubai Airshow in November 2013 to establish the Emirate of Abu Dhabi as a key member of Rolls-Royce's global network for maintenance and manufacturing.

Avio-Diepen has been appointed by **AirFi** for the sale and worldwide distribution of the AirFi Box, a compact portable Wi-Fi streaming solution that requires no aircraft modification enabling customers to connect their personal electronic devices to a secure in-cabin network while allowing passengers to read newspapers, magazines, view RSS-feeds, chat with others onboard, play games and more. Avio-Diepen will provide a full spectrum of support for AirFi's product line which will include its latest Venus Box version.

Rolls-Royce and **Microsoft Corp.** are collaborating to harness the power of digital technology to transform the aerospace industry. This collaboration brings together best-in-class solutions for aerospace engineering and cloud computing, including advanced analytics and the Internet of Things (IoT), to fundamentally change engine-related operations and services. This capability will be incorporated into Rolls-Royce's industry-leading TotalCare services to significantly reduce cost, improve

on-time performance and provide better value to our customers and the industry as a whole. Built on the Microsoft Azure cloud platform and utilizing Microsoft's Azure IoT Suite to collect and aggregate data from disparate, geographically distributed sources, and Cortana Intelligence Suite to uncover data insights, the new digital capability is able to manage and integrate much broader quantities of airline operational data. Using a range of smart data analysis capabilities and predictive tools, and engineering expertise to add additional insight, the results will help airlines reduce fuel usage, fly routes more efficiently, and ensure the right teams and equipment are in place to service engines more quickly and to maintain the highest levels of availability. Rolls-Royce is targeting a significant improvement in airline efficiency, a step-change in resolving engine-related issues, supporting a vision of every journey, for every passenger, taking off and landing on time, every time

Commsoft, the aviation maintenance and engineering IT systems provider, has signed a contract with **Bravo Airways** of the Ukraine to supply its leading MRO IT system, OASES (Open Aviation Strategic Engineering System). Bravo Airways has become the second Ukrainian customer for OASES. Bravo Airways is in the process of a new launch, following recent major investments. OASES will support the Bravo Airways' fleet, which currently consists of one Boeing 737-500 and one Boeing 737-300, for its airline ACMI (Aircraft, Crew, Maintenance and Insurance) operations. Bravo Airways' OASES license will run for five years and will allow five concurrent users. It covers five crucial MRO modules, including core, airworthiness, planning, materials and warranty. Bravo Airways' OASES site will be hosted on Commsoft's Private Cloud for maximum customer support and convenience.

Following the acquisition of **Navtech** in March this year, **Airbus** has launched its new integrated flight operations and air traffic management service company – NAVBLUE – to provide a complete range of digital end-to-end and integrated flight operations solutions. NAVBLUE will function as a wholly owned subsidiary of Airbus and be a key unit of Services by Airbus. NAVBLUE's main offices are located in Waterloo, Ontario Canada, Hershman in the United Kingdom, and Toulouse in France, with satellite sites around the world. NAVBLUE's portfolio integrates the existing product offer of Navtech – which is now bolstered by Airbus ProSky's Air Traffic Management solutions, as well as Airbus' popular Flight Operations innovations such as ROPS and FlySmart. The new subsidiary will also draw upon the unique expertise of Airbus Defence and Space coupled with proprietary

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high quality satellite data and extensive data analysis expertise, to deliver the most accurate solutions. NAVBLUE's solutions and services will not be limited to Airbus aircraft, but will build on the independent scope and position of Navtech. The product families will support both civil or military environments, on the ground or on board any aircraft.

Israel Aerospace Industries (IAI) has signed significant cyber deals, worth more than US\$40m, with customers in Asia. The deals include establishing an advanced nationwide system for monitoring and analyzing of cyber events, an advanced cyber protection suite for mission critical systems. Cyber security is a strategic sector and core competency for IAI. The company is developing cyber solutions and unique solutions for intelligence, protection, monitoring, identification and accessibility. These advanced capabilities are possible due to the unique technologies developed by IAI's research, development and excellence centers, offering IAI's customers a wide range of capabilities for handling evolving and ever-growing cyber threats. IAI operates four cyber research and development centers – one in Singapore, one in Switzerland, and two in Israel – the most recent of which was opened in the city of Beer Sheva. IAI leads the Israel Cyber Company Consortium (IC3) which offers end-to-end solutions for national cyber systems and is comprised of leading Israel cyber companies.

Panasonic Avionics (Panasonic) and its partner **China Telecom Satellite (CTS)**, have announced a one-year extension of their Ku-band inflight connectivity trial. With this milestone, all approved Chinese and international airlines can now select Panasonic's Global Communications Services and enjoy connectivity services worldwide. Per the terms of the license, over 20 foreign airlines with more than 1,000 aircraft are expected to begin operating connected flights over Chinese airspace, with more in process. In addition, Panasonic's Chinese airline customers, including China Eastern Airlines, Xiamen Air, Hainan Airlines and China Southern Airlines have begun preparations to offer connectivity services across their global route structure.

Willis Lease Finance Corporation has entered into an agreement to use **GE Aviation's** Engine Health Validator app to evaluate engine condition, so reducing time and cost to transfer engine assets between lessees. The app replaces the need for performance verification test cell

runs by providing an accurate prediction of engine condition for engines maintained in the OEM configuration. "Our customers have been very pleased with the rollout of this new offering and, when executed with our managed lease return product, it greatly reduces the time, administrative and financial burden of transitioning engines between lessees," said Brian R. Hole, President, Willis Lease. "We are working hard to deliver innovative solutions to our customers, and collaborating with GE on this project is a very clear step in the right direction."

China Eastern Airlines has increased its commitment to **Panasonic Avionics' (Panasonic)** for global broadband connectivity services to 84 total aircraft. The leading Chinese carrier, which, in partnership with China Telecom Satellite, was the first to offer broadband Wi-Fi connectivity on flights over Chinese airspace, and this agreement strengthens its long-term relationship with Panasonic. The extended agreement – following the announcement of 20 Boeing 777-300ERs last November – includes 35 line-fit aircraft with and an extensive retrofit program covering an additional 49 aircraft.

Satair Group's "Integrated Material Services" (IMS) has won their first A350XWB customer, **Cathay Pacific Airways**, and has started their new service offering for the airline's fleet of 48 Airbus A350XWB aircraft. Working in conjunction with the recently announced long-term agreement with Airbus to provide Flight Hour Services (FHS), Satair Group will operate the IMS, which was signed through the Airbus Flight Hour Services Limited, to provide an expendable material management solution. Under the IMS banner, Satair Group now provides a fully integrated end-to-end supply chain package for Cathay Pacific's expendable material. This includes planning, sourcing, purchasing, logistics and inventory management – approximately 15,000 part numbers in total. Satair Group has already started service with the supply of expendable material for Cathay Pacific's flight simulators, initial stocking of outstations and Cathay's central stock in Hong Kong to support the delivery of the first aircraft at the end of May.

Lufthansa Technik AG has modified the first VIP aircraft, an Airbus A340, with the fastest internet connection currently available on the market, the so-called Ka-band satellite communication technology. Lufthansa Technik is the first MRO company in Europe to receive the Supplemental Type Certificate (STC) from EASA to install Ka-band antenna systems on an Airbus A340 aircraft. After successfully installing such a system on an A319 as well,

Lufthansa Technik now holds STCs for Airbus A320 family and A340 aircraft. In addition, Lufthansa Technik will also receive STCs for the Boeing 737BBJ and Airbus A330 before the end of 2016. The STC serves to verify that the modifications to an aircraft conform to the design specifications stipulated by EASA.

Sabre Corporation has expanded its long-term technology agreement with **LATAM Airlines Group** with the implementation of Sabre's Flight Plan Manager and broadening the adoption of Software-as-a-Service solutions from the Sabre AirCentre operational suite. Sabre's AirCentre Flight Plan Manager, which provides fully-automated flight planning capabilities and significant productivity savings, will help the group unify flight operations and fuel policies across its domestic operations in seven countries – Chile, Brazil, Peru, Argentina, Colombia, Ecuador and Paraguay – as well as its international network. Sabre's Flight Plan Manager brings together real-time information on a number of key variables – including weather, air space restrictions, aircraft performance and schedule information – and then calculates the most optimal flight route. Sabre's technology aims to help LATAM Airlines Group to deliver a wide range of enhancements in flight planning and operational efficiency, including a subsequent reduction in CO2 emissions.

SK AeroSafety, which specializes in the repair and overhaul of aircraft safety components, has selected **Quantum Control** MRO and Logistics software for worldwide rollout to its five locations. Implementation across all facilities is expected by end of the third quarter 2016. SK AeroSafety, the aviation business unit of the SK FireSafety Group based in the Netherlands, consists of five companies, including **Avia Technique** based in the United Kingdom, **Hugen** in the Netherlands, **Team Aero Services** in the United States, **Destini Avia Technique** in Malaysia, and a franchise operation in Dubai operated by **Aero Technics**.

STG Aerospace announced that its emergency floorpath marking system, saf-Tglo, has been installed on the **Orbis** Flying Eye Hospital. Orbis, a non-profit organization that fights blindness around the world and based in New York, operates the Flying Eye Hospital, the world's only mobile ophthalmic teaching hospital on board an MD-10 aircraft, taking the very latest ophthalmological knowledge and surgical skills to local hospitals around the world. The aircraft, an MD-10-30CF was previously operated by FedEx who subsequently donated it to Orbis. Today the aircraft is flown by a team of volunteer FedEx pilots.

INDUSTRY PEOPLE



Adil Slimani

• BA (International Bureau of Aviation) announced the appointment of new Commercial Director **Adil Slimani**. Adil joins the team this month, where his role will be to develop the airline's customer base and revenue streams, utilizing his deep knowledge of operational support requirements on a global basis, and supporting the Company's current growth strategy.



Sarah Ferguson

• Manchester, UK, EDM, a global provider of training simulators to the civil aviation and defense sectors, has appointed **Sarah Ferguson** as its Finance Director with effect from July 1, 2016. Sarah joined EDM last year as Head of Finance from automotive seating upholstery manufacturer Proseat, where she was Financial Controller from 2011. During her 22-year career, Sarah has also held senior finance roles with leading manufacturing companies including James Dewhurst, Akros Chemicals and Great Lakes Chemical Corporation.

• Safety Line, an innovative service provider applying Big Data solutions to air transport, has reported that **François Chazelle**, an experienced Sales Executive and aviation expert, is joining its growing team from mid-August. François will be joining from Aviation Finance Company (AFC), where he was Managing Director Sales, in charge of originating private placement aircraft financing opportunities with airlines and lessors worldwide.

• GA-Finance, the Amsterdam-based regional aircraft leasing company, is changing its name to TrueNoord Regional Aircraft Leasing. Established by founder and CEO **Anne-Bart Tieleman** in 2002, and joined by COO Joost Schlatmann in 2007, the business specializes in leasing solutions for the regional aircraft market from its base in Amsterdam. The change of name to TrueNoord coincides with the conclusion of a capital increase program resulting in an investment from the private equity firm Bregal Freshstream. In addition to a change of name and attract-

Recommended Events



ENGINE LEASING SEMINAR 2016
19 September 2016, Holiday Inn Kensington Forum, London



www.everestevents.co.uk

Engine Leasing Seminar 2016
September 19, 2016 - September 19, 2016
Holiday Inn Kensington Forum, London

Aircraft Records & Asset Management
October 18, 2016 - October 18, 2016
Miami, Florida

Aircraft Economic Life Summit 2016
November 22, 2016 - November 22, 2016
Gibson Hotel, Ireland, Dublin

Asian Business Aviation Conference & Exhibition (ABACE 2016)
December 12, 2016 - December 14, 2016
Shanghai, China

[Click here for more aviation events](#)

ing further capital, TrueNoord has also expanded its management team: **Angus von Schoenberg** joins as Chief Investment Officer for the business, **Stephen Couttie** joins as Chief Financial Officer, and **Garry Topp** joins as Chief Commercial Officer. Furthermore, TrueNoord has introduced **Nigel Turner** as non-executive Chairman to the business.

• **Peter Hunt**, currently Virgin America senior vice president and chief financial officer, will serve as president of Alaska Air Group's Virgin America subsidiary until the airlines obtain a single operating certificate from the Federal Aviation Administration (FAA), expected in early 2018. In addition to his role as chief operating officer and president of Alaska Airlines, **Ben Minicucci** will serve as chief executive officer of Virgin America effective with the acquisition's close.

• AAR CORP, a leading aviation aftermarket solutions company that serves commercial and government customers worldwide, reported that **Timothy J. Romenesko** has been appointed to serve as the Company's Vice Chairman and Chief Financial Officer, effective August 1, 2016. Romenesko will replace **Michael J. Sharp**, who is retiring from AAR after 20 years with the Company. Romenesko, is a 35-year veteran of the company and currently serves as its Vice Chairman and Chief Operating Officer, Expeditionary Services.

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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A300-600	Aersale	CF6-80C2A5	787	1998	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
A319-100	ORIX Aviation	V2522-A5	2501	2005	Q2/2017	Lease	Daniel Cunningham	daniel.cunningham@orix.ie	+353 871774524
A320-200	ORIX Aviation	V2522-A5	2680	2006	Q2/2017	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 863 350 004
A320-200	ORIX Aviation	V2522-A5	1183	2000	Q2/2017	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 863 350 004
A320-200	ORIX Aviation	V2527-A5	1888	2002	Q2/2017	Sale	Paul O'Dwyer	pau.odwyer@orix.ie	+353 863 822 960
A320-233	FPG Amentum	V2527-A5	3543	2008	Jun 2016	Sale / Lease	Jack Hynes	marketing@fpg-amentum.aero	+353 16398125
A320-233	FPG Amentum	V2527-A5	3524	2008	May 2016	Sale / Lease	Jack Hynes	marketing@fpg-amentum.aero	+353 16398125
A330-200	ORIX Aviation	CF6-80E1A3	887	2007	Q1/2018	Lease	Daniel Cunningham	daniel.cunningham@orix.ie	+353 871774524
A330-223	FPG Amentum	PW4168A	943	2008	Mar 2016	Sale / Lease	Jack Hynes	marketing@fpg-amentum.aero	+353 16398125
A330-223	FPG Amentum	PW4168A	962	2008	Mar 2016	Sale / Lease	Jack Hynes	marketing@fpg-amentum.aero	+353 16398125
A330-223	FPG Amentum	PW4168A	979	2009	Oct 2016	Sale / Lease	Jack Hynes	marketing@fpg-amentum.aero	+353 16398125
737-300	Aersale	CFM56-3C1	27910	1997	Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B737-300	European Capital Corp.	CFM56-3B2	24634	1990	Now	ACMI/Wet Lease	Iacovos Yiakoumi	commercial@europeancapitalcorp.com	+35722873250
B737-300	World Star Aviation Services	CFM56-3C1	28873		Apr 2016	Lease	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-220000
B737-300F	ORIX Aviation	CFM56-3B2	24710	1990	Now	Sale	Cian Coakley	cian.coakley@orix.ie	+353 877760451
B737-400	World Star Aviation Services	CFM56-3C1	24332		Q4/2016	Lease	Tommy Guttman	tguttman@worldstaraviation.com	+972-544-220000
B737-400	Safair Operations	Combi	East Africa	Now	ACMI only		C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-800	ORIX Aviation	CFM56-7B26/3	29660	2007	Q4/2017	Lease	Daniel Cunningham	daniel.cunningham@orix.ie	+353 871774524
B737-800	Fortress Investment Group	CFM56-7B26	29888	2002	Now	Lease	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
B747-400	Fortress Investment Group	CF6-80C2B1F	28959	1998	Now	Lease	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
B747-400	GA Telesis	RB211-524	26637	1992	Now	Sale	S.Jung/K.Milligan	AircraftTrading@gatelesis.com	+1 954-958-1321
B747-400	GA Telesis	RB211-524	26638	1993	Now	Sale	S.Jung/K.Milligan	AircraftTrading@gatelesis.com	+1 954-958-1321
B757-200	Fortress Investment Group	RB211-535E4	27260	1994	Oct 2016	Sale / Lease	Jeff Lewis	aviation@fortress.com	+1 (305) 833-0309
B757-222	Bristol Associates	PW2037	25157	1991	Q1/2016	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-222	Bristol Associates	PW2037	25322	1991	Q1/2016	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-222	Bristol Associates	PW2037	25396	1992	Q1/2016	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-222	Bristol Associates	PW2037	25398	1992	Q1/2016	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-222	Bristol Associates	PW2037	25698	1991	Q1/2016	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B767-27GER	Aersale	CF6-80C2B4F	27048		Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B767-300ER	Aersale	RB211-524	28149		Now	Sale / Lease	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238
B777-200	GA Telesis	P&W	26925	1995	Now	Sale	S.Jung/K.Milligan	AircraftTrading@gatelesis.com	+1 954-958-1321
B777-200ER	GA Telesis	P&W	30214	1999	Now	Sale / Lease	S.Jung/K.Milligan	AircraftTrading@gatelesis.com	+1 954-958-1321
DC8	Aersale	No engines	46094	1969	Now	Sale	Craig Wright	Craig.Wright@aersale.com	+1 305 764 3238

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR42-300	Regional One	PW120	51	1987	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext. 164
ATR42-300	Regional One	PW120	57	1987	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext. 164
ATR72-202	Regional One	PW124B	307	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext. 164
CRJ-200ER	Regional One	CF34-3B1	7452	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext. 164
CRJ700	Regional One	CF34-8C5B1	10029	2001	Aug 2016	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
DASH8-102	Magellan Aviation Group	PW121	113	1988	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
DASH8-311	Regional One	PW121	230	1990	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext. 164
DASH8-311	Regional One	PW123B	291	1991	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext. 164
DASH8-311	Regional One	PW123B	410	1995	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext. 164
DASH8-311	Magellan Aviation Group	PW123	266	1991	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
Dornier 328-200	Regional One	PW306B	3145	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext. 164
Dornier 328-200	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext. 164
E170	Magellan Aviation Group	CF34-8E5	59	2003	Now	Sale / Lease	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202



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THE AIRCRAFT AND ENGINE MARKETPLACE

Regional Jet / Turboprop Aircraft (cont.)

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ERJ-135ER	Bristol Associates		145176	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135ER	Bristol Associates		145186	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135ER	Bristol Associates		145192	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates	AE3007-A1	145410	2001	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates	AE3007-A1	145413	2001	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates	AE3007-A1	145504	2001	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-145LR	Bristol Associates	AE3007-A1/3	145208	1999	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-145LR	Bristol Associates	AE3007-A1/3	145239	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-145LR	Bristol Associates	AE3007-A1/3	145302	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000

Commerical Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) AE3007A1	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(3) AE3007	Now - Sale	GA Telesis	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
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				
(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
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
(2) CF34-10E6	Now - Lease	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(1) CF34-3B1	Now - Lease				
(1) CF34-10E7	Now - Lease				
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B1F	Now - Sale / Lease	AerSale, Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2A5	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CF6-80C2B6F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B7F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B6F	Now - Sale/Lease/Exch.	TES Aviation Group	Bechan Carpenter	Bechan.carpenter@tesaviation.com	+ 44 7795 636 034
(1) CF6-80C2B7F	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) CF6-80C2B6F	Now - Sale / Lease				
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CF6-80C2B7F	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CFM56 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-5C4	Now - Sale/Lease/Exch.	TrueAero, LLC	Ed Blyskal	eblyskal@trueaero.com	+1 305-525-7308
(1) CFM56-5C4/P	Now - Sale/Lease/Exch.				
(1) CFM56-3C1	Now - Sale	European Capital Corporation	Iacovos Yiakoumi	commercial@europeancapitalcorp.com	+35722873250
(1) CFM56-3B2					
(1) CFM56-7B27	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-5B1/P	Now - Lease				
(1) CFM56-5C4	Now - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
(1) CFM56-3C1	Now - Sale / Lease				
(1) CFM56-5A1	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CFM56-5B	Now - Sale / Lease		Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CFM56-7B27/3B1F	Now - Sale/Lease/Exch.	AerSale, Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CFM56-5C3/F	Now - Sale / Lease				
(1) CFM56-3C1	Now - Sale / Lease				



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

CFM56 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5C4	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(3) CFM56-3C1	Now - Sale / Exchange	CFM Materials	Steven Jefferson	Steven.Jefferson@cfmmaterials.com	+1 214-988-6640
(2) CFM56-7B24	Now - Sale / Exchange		Jimmy Hill	Jimmy.Hill@cfmmaterials.com	+1 214-988-6670
(1) CFM56-5C4	Now - Sale	Orix Aviation	James Sammon	james.sammon@orix.ie	+353 871381042
(1) CFM56-5B2/P	Jul 2016 - Sale / Lease	Castlelake	Neil McCrossan	NEIL.MCCROSSAN@CASTLELAKE.COM	+44 (0) 207 190 6119
(1) CFM56-3C1	Now - Sale/Lease/Exch.	TES Aviation Group	Bechan Carpenter	Bechan.carpenter@tesaviation.com	+ 44 7795 636 034
(1) CFM56-7B22	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) CFM56-3B2	Now - Sale / Lease				
(1) CFM56-7B24	Now - Sale / Lease				
(1) CFM56-7B26	Now - Sale / Lease				
(1) CFM56-7B27	Now - Sale / Lease				
(1) CFM56-3C1	Now - Sale / Lease				
(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) CFM56-7B24 (Non-TI)	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(2) CFM56-7B24/3	Now - Lease				
GEnx Engines	Sale / Lease	Company	Contact	Email	Phone
GEnx-1B74/75	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(2) JT9D-7R4	Now - Sale	Phoenix Aer Capital	Bob Gallagher	reg@paclc.aero	+1-727-376-9292
(1) JT8D-219	Now - Sale	Azure Resources	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
(1) JT9D-7R4D	Now - Sale	Aero Controls, Inc.	Mike Olesik	Mike.Olesik@aerocontrols.com	+1-253-269-3012
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121 (Dash 8)	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/D/E	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW121 (ATR)	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(2) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(1) 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
(1) PW121	Now - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
PW127F	Now - Sale/Lease/Exch.	Logix.Aero	JC Morin	jcmorin@logix.aero	+33 647 824 262
PW127M	Now - Sale/Lease/Exch.				
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				
PW123B	Now - Lease				
PW124B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW127M	Now - Lease				
PW150A	Now - Lease				
PW150 GRB	Now - Lease				
PW2000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW2037M	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) PW2040	Now - Sale / Lease				

THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

PW4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) PW4056-3	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW4060-3	Now - Sale / Lease	AeroTurbine	Todd Power	tpower@aeroturbine.com	+1 (214) 240-1145
(1) PW4158-1C/1E (multi rated for PW4156A-1C/1E & PW4152-1C/1E)	Now - Sale	3TOP Aviation Services	Paul Dsilva	Paul@3topaviation.com	+44 1372 587 872
(1) PW4060-3	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) PW4168A	Now - Lease				
(1) PW4056-3	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) PW4060-3	Now - Sale / Lease	AerSale, Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4158-3	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4062-3	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) PW4056-3	Now - Sale / Lease		Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) PW4168	Now - Lease	TES Aviation Group	Bechan Carpenter	Bechan.carpenter@tesaviation.com	+ 44 7795 636 034
(1) PW4168A	Now - Sale / Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535E4	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) RB211-535E4	Now - Sale / Lease	Castlelake	Neil McCrossan	NEIL.MCCROSSAN@CASTLELAKE.COM	+44 (0) 207 190 6119
(1) RB211-535E4	Now - Sale / Lease	AerSale, Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) RB211-524	Now - Sale / Lease				
(1) RB211-535E4 /12B	Now - Sale/Lease/Exch.	TES Aviation Group	Bechan Carpenter	Bechan.carpenter@tesaviation.com	+ 44 7795 636 034
(1) RB211-535E4	Now - Sale	World Star Aviation Services	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
Tay Engines	Sale / Lease	Company	Contact	Email	Phone
Tay650-15	Now - Sale / Lease	Jetran, LLC.	Leo Nadeau	lnadeau@jetran.aero	+1 (512) 294-6727
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(1) Trent 800	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) V2533-A5	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
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 w/QEC	Now - Sale/Lease/Exch.				
(1) V2527E-A5	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner-aero.com	+1-703-402-7430
(1) V2527-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2533-A5	Now - Sale / Lease				

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(5) A340 fresh part outs	Now - Sale	TrueAero, LLC	Dan Barton/Dave Walters	sales@trueaero.com	+1 772-925-8026
A320 Landing Gear with Fresh Tags	Now - Sale				
A340 Landing Gear	Now - Sale				
CTCP331-350C (4) PN 3800454-6	Now - Sale				
GTCP36-300A, PN 3800278-4	Now - Sale				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) APS500C7B, (5) APS500C7D, (1) RE220RJ,					
(1) APS1000-C12, (2) TPE331-11U-612G					
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				
APU GTCP 331-500B	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
GTCP131-9B	Now - Sale / Loan	Avtrade	Alex Eales	alex.eales@avtrade.com	+44 (0) 1273 833330
767-300ER 413K LANDING GEAR	Now - Sale	Azure Resources	Jeffrey Young	jeff@azureres.com	+1-954-796-8158
737-300/400 LANDING GEAR					
CFM56-3 MODULES					
Engine Stands	Sale / Lease	Tradewinds Engine Services	Brad Pleimann	bpleimann@teslco.aero	+1 954-421-2510
CFM56-5B, CFM56-5C, CFM56-7B, V2500					
(1) CFM56-7B QEC KIT P/N 654A00017141	Sale / Lease				
Engine Stands	Now - Sale / Lease	Stands on Demand	Yexceland Perez	yperez@standsondemand.com	+1 305-558-8973
GE90/ CFM56 / V2500 / PW2000 / PW4000 94" & 100"					
131-9A, 131-9B, 331-200, 331-250,	Now - Sale/Lease/Exch.	Logix.Aero	JC Morin	jcmorin@logix.aero	+33 647 824 262
331-350C, PW901A					
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@werner-aero.com	+1 201-674-9999
GTCP36-300A, 737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
737-800 NOSE LANDING GEAR PN 162A1100-5, OH - Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(5) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@haero.com	+49-6731-497-368