

India and Russia to set up JVs to manufacture aircraft, automobiles

Safran Aircraft Engines and AFI KLM E&M launch their new Joint Venture, Airfoils Advanced Solutions

Pg

Boeing praises U.S. Trade Representative for winning WTO compliance Ruling

 $_{Pg}\mathbf{9}$

Oct 1st, 2017

P&WC signs FMP agreement with Avianca for full fleet of PW127N engines



Pratt & Whitney Canada has signed a Fleet Management Program (FMP®) agreement with Avianca, a Colombian airline, to maintain its fleet of PW127N engines powering ATR72-600 aircraft. P&WC's FMP plan is a long-term, allinclusive, pay-per-hour engine maintenance plan that will include the rollout of P&WC's FAST solution for advanced prognostics to Avianca's PW127N fleet. The combination of P&WC's FMP plan and FAST technology create a broad solution for data-driven predictive and preventive engine and aircraft health management.

"We are confident P&WC's FMP plan and FAST solution will provide long-term value to our clients, partners and investors by playing a role in helping us continue to deliver service excellence," said Miguel Angel Montoya Estrada, Technical VP, Avianca Holdings. "This agreement reflects our long-standing commitment to innovation, operational efficiency and business competitiveness through P&WC's high-quality maintenance support and world-class service network as well as rapid access to en-

gine trend data after each flight."

P&WC's FMP plan is a flexible, high value engine management solution that helps support lower operating costs and simplifies fleet operations management. It also serves as a financial planning tool to support more efficient cash flow management, while facilitating airlines to focus on their core business of passenger and cargo transportation. Under this programme, a P&WC-appointed team of experts, in conjunction with Avianca, will manage PW127 fleet maintenance to help deliver better returns on the customer's investment, customer satisfaction, peace of mind and outstanding engine reliability.

On the advanced prognostics side, P&WC's turnkey FAST solution will offer situational awareness about engine health, usage and trends by capturing, analysing and sending full-flight data intelligence wirelessly minutes after the pilot shuts down the engines. FAST technology goes beyond traditional prognostics to give customers a turnkey solution for a fully connected, data-driven engine for proactive and predictive engine

health management. For Avianca's fleet of ATR aircraft, the FAST solution will also help optimise engine performance by tracking the usage of "boost" and "super boost" modes, which the pilot can engage when additional power is required during takeoff. More than 1,200 FAST solutions have been delivered across numerous platforms, including 20 regional airlines.

"Together, our FMP plan and FAST solution are a powerful combination of maintenance predictability, cost control and deep engine insight that will help move Avianca toward a fully planned environment - where flights can remain on schedule and delays and cancellations can be avoided," said Satheeshkumar Kumarasingam, vice president of Commercial Services, P&WC. "It's about delivering long-term value and peace of mind to our customers through innovative and flexible solutions aligned closely with their needs. Today's announcement with Avianca is a testament to our commitment to helping airlines manage their maintenance costs more effectively and increasing availability while offering better protection for their business and investment."

Under the FMP plan, Avianca will have full coverage for scheduled events, basic unscheduled engine repairs, low-cycle fatigue replacement, engine condition trend monitoring and engine freight, along with guaranteed turnaround time, bespoke support and more.

The FMP agreement is with the three airlines supported by Avianca Holdings S.A. including: Aerovias del Continente Americano S.A./Avianca S.A.; Aviateca S.A. and Islena de Inversiones S.A. de C.V./ Islena S.A.



Airbus' "BLADE" laminar flow wing demonstrator makes maiden flight



Airbus' A340 laminar-flow "BLADE" test demonstrator aircraft has made its successful first flight for the EU-sponsored Clean Sky "Blade" project. The aircraft, dubbed "Flight Lab", took off from the Tarbes aerodrome in southern France at local time 11:00, and after a series of successful tests it landed at Airbus' facilities in Toulouse Blagnac. The overall flight time was 3hrs/38mins.

The BLADE project which stands for "Breakthrough Laminar Aircraft Demonstrator in Europe" is tasked with assessing the feasibility of launching the technology for commercial aviation. It aims to enhance aviation's ecological footprint, bringing with it a 50 percent reduction of wing friction and up to five percent lower CO2 emission. Airbus' A340 Flight Lab is the first test aircraft globally to combine a transonic laminar wing profile with a true internal primary structure.

On the outside the aircraft is fitted with two representative transonic laminar outer-wings, while inside the cabin a highly complex specialist flight-test-instrumentation (FTI) station has been installed. The wide modifications to the A340-300 test-bed aircraft took place during the course of a 16-month working party in Tarbes, with the support of various industrial partners across Europe.

"We began by opening the flight envelope to check that the aircraft was handling correctly," explains Airbus Flight-Test Engineer, Philippe Seve, who was on board the flight. "We achieved our objective to fly at the design Mach number, at a reasonable altitude and check everything was fine. We also checked that the FTI was working as expected, to identify further fine-tuning for the next flights."

On the wings, there are hundreds of points to measure the waviness of the surface to help Airbus' engineers ascertain its influence on the laminarity which is the first time that Airbus has used such a testing method on an aircraft. Other 'firsts' are the use of infrared cameras inside the pod to measure wing temperature and the acoustic generator which measures the influence of acoustics on laminarity. In addition, there is also an innovative reflectometry system, which measures overall deformation in real-time during flight.

An important goal of Blade is to be able to measure the tolerances and imperfections which can be present and still sustain laminarity. To this end, Airbus will simulate every type of imperfection in a controlled manner, so that at the end of the campaign the tolerances for building a laminar wing will be fully known. The flight Lab will perform around 150 flight hours in the coming months.

ALL4JETS chooses Commsoft's industryleading MRO IT system, OASES

A LL4JETS, a Warsaw-based technical services organisation, has selected Commsoft's OASES, to support its Capital Area Maintenance & Operations (CAMO) operations.

ALL4JETS has also chosen to access the modules through Commsoft's private cloud service, avoiding the need to install any additional hardware.

Primarily, ALL4JETS will be using OASES to support two Embraer E-190 regional jets and two Dash8-Q400 turboprop aircraft on behalf of their lessors, with further E-Jets and ATR aircraft also being assessed.

Nick Godwin, managing director, Commsoft commented, "The OASES user community is very much a global one and this latest win, the fifteenth OASES contract we have signed in 2017, represents a further step in our growing presence across the BEER countries. We're very much looking forward to working closely with ALL4JETS to ensure an early implementation."

AAR sign five-year MRO contract with Air Canada for Boeing 767 Maintenance

AR, a global aftermarket solutions company based in Wood Dale, Illinois has signed a 5-year agreement with Air Canada to offer airframe maintenance for the airline's fleet of 34 Boeing 767 at AAR's Miami MRO facility. The contract will start later this year and ramp up over three months.

Rich Steer, senior vice president, Operations, Air Canada added, "We have been pleased with the work performed by AAR on Air Canada's fleet. This contract assures Air Canada of a quality solution for our Boeing 767 maintenance needs through AAR's extensive and proven capabilities in this field."

"We are excited to expand our long-term relationship with Air Canada to their 767 fleet," said Chris Jessup, chief commercial officer, AAR. "Our Miami MRO is a world-class facility that can accommodate wide-body aircraft and provides good-paying jobs to American workers."



Air Canada selects AAR for airframe maintenance

AR CORP., an independent provider of services to the global commercial, government and defence aviation industries and Air Canada, the flag carrier and largest airline of Canada has signed a 10-year agreement to offer airframe maintenance for the airline's Airbus narrow-body fleet of

A319, A320 and A321 aircraft, as well as a new five-year agreement for Air Canada's Embraer E-190 fleet. AAR will perform the work at its Maintenance, Repair and Overhaul (MRO) facility at Trois-Rivières Airport in Québec, previously known as Premier Aviation.

The work to be performed on Air Canada's fleet of 125 narrow bodies will require



around 350 aircraft mechanics at AAR's Trois-Rivières facility. The total value of the contract over its term is estimated to be just about \$500 million CAD.

"We have been very pleased with the quality and turnaround time of AAR and the Trois-Rivières facility for the work performed on our narrow-body fleet over the past five years, and are especially delighted that additional work can now be performed in Trois-Rivières Québec," said Richard Steer, senior vice president, Operations at Air Canada. "This contract further supports the development of Québec's aviation sector by encouraging industry expertise and job growth in the

coming years, and Air Canada is proud to be a significant contributor to the economy of the region."

"We are honored by Air Canada's confidence in AAR's airframe heavy maintenance expertise, and look forward to continuing our long-term relationship," said Chris Jessup, chief commercial officer, AAR.



OCT 3 – 5, 2017 **LONDON, UK**

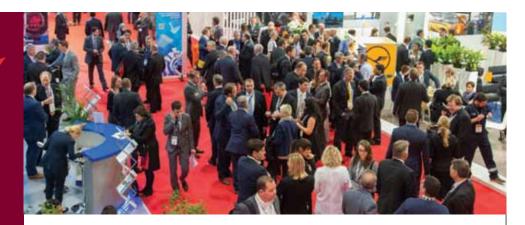
ExCeL London

NEW FOR 2017

MRO Europe Heli Zone and "Go-Live" Demo Theater

Co-located with





Join Europe's Largest Gathering of MRO Leadership.

Aviation Week Network's Helicopter Fleet & MRO Forecast shows the worldwide business fleet estimated to grow to 34,700 aircraft by 2025, with a 10-year MRO requirement of \$83 billion. Harness that opportunity and join providers, colleagues and competitors for interactive content and the opportunity to connect with leading providers.

Sessions include live demos and solutions from industry players dedicated to help you with your operations by providing fresh ideas. Content includes technology innovation, line maintenance, drones, digitalization, mobile MRO, helicopter trends and a forecast from the Aviation Week Intelligence Network team!

Learn more, visit mroeurope.aviationweek.com



Sepang Aircraft Engineering opens second hangar; celebrated 10th anniversary of the MRO centre



Sepang Aircraft Engineering (SAE), an EASA approved, independent Aircraft Maintenance, Repair and Overhaul (MRO) service provider officially opened its second hangar with a ceremony attended by Dato' Sri Ong Ka Chuan, Minister of International Trade and Industry II, Malaysia. The event also celebrated the 10th anniversary of the independent maintenance, repair and

overhaul (MRO) centre.

The 12,000 square metre hangar enhances SAE's capacity to handle the Airbus A320 Family, and can accommodate two of the aircraft at any time for major maintenance checks. It also features Malaysia's first eco-friendly closed-door dedicated paint bay, as well as state-of-the-art workshops for the repair and overhaul of an extensive range

of components used on Airbus aircraft, including hydraulic and pneumatic systems.

SAE chief executive officer Pierre Reville said that the second hangar will strengthen and expand the MRO centre's capabilities.

"As an EASA-approved independent aircraft MRO centre, SAE is able to offer world class maintenance services to airlines from across South East Asia and beyond. The new hangar gives us added flexibility and space to offer more services for our customers," he said.

"Since we opened in 2007, we have completed 500 C-Checks and established a strong reputation in the MRO market for on-time and reliable service. We are proud of our contribution to the growth of the Malaysian aerospace sector."

SAE's first hangar, which opened in 2007, has a floor area of 37,000 square metres and can accommodate up to six single-aisle aircraft or two widebody aircraft at any one time.

AAR set to acquire two MRO facilities from Premier Aviation

AR, a global aftermarket solutions company based in Wood Dale, Illinois, has agreed to acquire two of Premier Aviation's aircraft maintenance, repair and overhaul (MRO) facilities – one at Trois-Rivières Airport in Québec and one at Windsor International Airport in Ontario.

"We are excited to add an experienced workforce and two world-class facilities to our award-winning MRO network, and we look forward to growing our position in, and bringing more flexibility and value to, the Canadian market," said John Holmes, president & chief operating officer, AAR. "The culture of continuous improvement and execution excellence at these facilities is consistent with AAR's commitment to the highest levels of service."

Premier Aviation established the MRO facility in Trois-Rivières in 2002 and expanded it to 150,000 square feet in 2011. The facility can accommodate up to seven narrow-body aircraft. Premier began operating in Windsor in 2012 in a new 143,000-square-foot hangar with



full back shop capability and capacity for six narrow-body aircraft. The facilities have made noteworthy investments in tooling over the past few years and at present employ over 300 well-trained aviation mechanics and personnel who will retain their positions based on expected workload.

"We are honored that a company with the reputation, breadth and depth of AAR has recognized the quality of our MRO facilities, and we are pleased that the customers and employees of these facilities will continue to be well-supported," said Ronnie DiBartolo, president of Premier Aviation. "This transaction also allows Premier to focus its resources on future areas for growth at our other two MRO facilities."

Holmes added, "This Canadian presence will be complementary to our U.S. MRO operations and workforce."



www.stattimes.com/mrosa2018





Liebherr-Aerospace Lindenberg GmbH has entered into an agreement with Flybe Ltd, the largest independent regional airline in Europe, based in Exeter covering the overhaul of the main and nose landing gear systems of the airline's Embraer E175 and E195 aircraft. The agreement covers the airline's fleet

of 20 Embraer E175 and E195.

Luke Farajallah, COO & accountable manager at Flybe commented, "With Flybe's primary focus on safety and compliance, we are happy to have found a reliable service provider with the OEM Liebherr-Aerospace for our Embraer landing gear overhaul campaign. They

are flexible, their actions are transparent and they understand what we require."

Liebherr-Aerospace will perform all overhaul activities at its facility in Lindenberg (Germany). Arndt Schoenemann, managing director Liebherr-Aerospace Lindenberg GmbH said, "With this contract, Flybe and Liebherr-Aerospace are strengthening their collaboration. Moreover, this new contract is further proof of our leading position in E-Jet landing gear overhauls in Europe."

The complete landing gear systems for the E-Jet family E170, E175, E190 and E195, which include the brake systems, were developed and manufactured by the OEM Liebherr-Aerospace Lindenberg GmbH, Liebherr's center of excellence for flight control and landing gear systems.

CRMA celebrates 60 years of expertise



CRMA, an AFI KLM E&M subsidiary commemorates its first 60 years in 2017, as it launches an ambitious expansion plan.

In August 1957, the Construction et Réparation de Matériel Aéronautique company was born out of the merger of two historic French aviation industry businesses, engine maker Salmson and Avions Voisin, and established its headquarters at Issy-les-Moulineaux on the outskirts of Paris.

Sixty years later, the repair shop has

become a key player on the global MRO market, reputed for its know-how on high value-added products based on facilities and expert personnel.

CRMA became part of the Air France group in 1992, when it moved to a cutting-edge facility at Elancourt, South West of Paris. Over the years, it gained a reputation as a principal supplier of MRO services for a broad range of international companies, and for its fineness and exacting standards, both in operational terms for the quality and reliabil-

ity of its services, and in relational terms towards its customers' requirements.

CRMA lately developed capabilities for GEnx engines, powering the Boeing 787, and is presently industrialising Rolls Royce engine part repairs, including for the A350's Trent XWB powerplant. CRMA has also launched project Apollo to extend its capacity and climb to ever higher altitudes. After investing some 8 million euros, CRMA will see a 25 percent enhancement to its industrial capacity, including 2,500sq.m. of additional surface area and new, ultra-modern equipment. The new capacity is scheduled for delivery in the spring of 2018.

Benjamin Moreau, CEO of CRMA, said: "If our company has, in the space of sixty years, managed to forge for itself this image of excellence in the service of its customers, it is above all because it is driven by men and women who are passionate about what they do and are experts in their field. CRMA staff each day channel their technical expertise and work together to imagine and implement ever more effective solutions. This is one of the outstanding features of CRMA, which is continually handed down from one generation to the next, in line with major development projects like Apollo."



Lufthansa Systems supports research at the DLR with its flight planning solutions

Lufthansa Systems, a leading airline IT provider is making its NetLine/Plan and NetLine/Sched flight planning solutions available to the researchers at the German Aerospace Center (DLR), the national center for aerospace, energy and transportation research of the Federal Republic of Germany. The scientists are using the software from Lufthansa Systems to develop new air transport concepts and explore ways of enhancing the efficiency of network and flight planning. As a result, airlines will benefit from lower costs, and passengers will enjoy greater punctuality.

"We are very interested in further developing our basic research results together with partners from the application area and are pleased to be able to use NetLine/Plan and NetLine/Sched, since the two solutions are already employed by more than 70 airlines," said Klaus Luetjens, head of Air Transport

Operations and Infrastructures in the department Air Transportation Systems at the DLR. "Airlines use NetLine/Plan to create optimized flight plans as part of their network planning strategy. The software simulates new connections, generates forecasts for passenger streams based on market data, and calculates the effects on costs and revenues. NetLine/Sched helps airlines with flight schedule management. It supports the evaluation of what-if scenarios prior to flight operations and automatically calculates their cost-effectiveness."

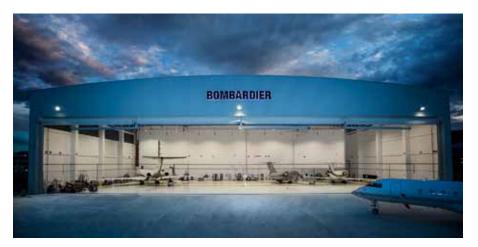
At the start of the project, the experts from Lufthansa Systems prepared the data basis, installed the software on DLR computers and then trained the scientists. Following the successful completion of the project, the DLR researchers can now use the two NetLine products to quickly simulate various air transport concepts. The project will run until 2020,

and the results will be published and made available to the industry.

Since 2016, Lufthansa Systems and the DLR have been working together on a project for developing more robust flight plans. The German Federal Ministry for Economic Affairs and Energy (BMWi) is supporting the project as part of its federal aviation research program. The scientific and technical knowledge they have acquired together will make stronger the German industry and technology in general and the aviation sector in particular.

"We benefit from their scientific findings, as data science is becoming increasingly important in aviation. Thanks to our cooperation with the DLR, we can further develop our products in a targeted way and continue to be an innovation leader," said Pascal Mougnon, Head of Network Planning Solutions at Lufthansa Systems.

Bombardier Business Aircraft continues to expand worldwide parts availability



Bombardier Business Aircraft continues its expansion of worldwide parts availability for its growing fleet of Learjet, Challenger and Global aircraft. As part of the company's commitment to operators in the United States, Latin America, and Asia, Bombardier Business Aircraft lately opened parts depots in Miami, Florida and Tianjin, China.

"Our focus has been and continues to

be on keeping our worldwide services network aligned with the needs of our customers in every region," said Jean-Christophe Gallagher, vice president and general manager, Customer Experience. "With an increasing fleet of business jets, we're continually expanding our network and services offerings to maximize the efficiency of our customers' aircraft operations."

The new parts depots in Miami and

Tianjin are located near major airports as well as Bombardier Aircraft Service Centres in Fort Lauderdale and Tianjin to ensure that customers can benefit from both parts availability and maintenance support.

"Since March 2017, our customers have realized cost savings using the company's new on-the-spot price-match guarantee in addition to benefitting from our two-year warranty," said Guillaume Landrivon, vice president, Worldwide Parts Services.

"We've added thousands of parts to our network and can match the price of competitors. We want to be our customers' first choice for maintenance by offering greater flexibility, more resources, and faster access to world-class maintenance support."

The Bombardier Parts Services team includes 24/7 live support and a global network of 10 parts distribution sites that move nearly 70,000 aircraft parts monthly to support Bombardier Business Aircraft customers worldwide.



Airbus inaugurates A330 Completion & Delivery Centre in China



A irbus has inaugurated its A330 Completion and Delivery Centre (C&DC) in Tianjin, China. At the same time, the first A330 to be delivered from the C&DC was handed over to Tianjin Airlines.

Located at the same site as the Airbus Tianjin A320 Family Final Assembly Line and the Airbus Tianjin Delivery Centre, the A330 C&DC covers the aircraft completion activities including cabin installation, aircraft painting and production flight test, as well as customer flight acceptance and aircraft delivery.

The new plant is composed of paint shop, weighing hangar and one main

hangar with three aircraft positions covering an area of 16,800m2. The A330 C&DC in Tianjin will employ more than 250 people and is ready to deliver two aircraft per month by early 2019.

"The inauguration of our A330 C&DC in Tianjin, together with the first of many deliveries, marks a new milestone for Airbus' international footprint and underlines the strong spirit of cooperation with our Chinese partners," said Fabrice Brégier, AirbusCOO and president of Commercial Aircraft. "Wide-body aircraft completed in China is an Airbus and an industry first which demonstrates our mutual commitment to a strong and growing Chinese aviation sector."

To celebrate C&DC inauguration, a first A330 aircraft was delivered to Tianjin Airlines. The aircraft which was assembled and equipped in Toulouse with Chinese and European staff is powered by Rolls-Royce Trent 700 engines and is configured in two classes with 260 seats.

By the end of August 2017, the inservice Airbus fleet with Chinese carrier included 1,484 aircraft, 1,282 A320 Family and 202 A330 Family. The A330 is the most popular wide-body aircraft in China operated by nine airlines.

AJW, NordStar extend Engine Shop Visit Management agreement

A JW Group, a world leading specialist in the supply, exchange, repair and lease of commercial aircraft spare parts, has extended their contract with Russian airline NordStar to perform Engine Shop Visit Management for seven of their CFM56-7B engines.

AJW earlier managed three of Nord-Star's shop visits between 2015 and 2016, delivering efficiencies that saved the airline in excess of \$1m and this new agreement builds on the success of that partnership.

The work will be carried out by experienced engineers from AJW's engines team which specialise in offering new and flexible solutions that drive down operational costs for clients.

Christopher Whiteside, president and CEO of AJW Group, said, "AJW's engines team are experts in helping airlines opti-



mise their engine performance to make efficiency savings that drive profitability.

"This agreement is testament to the strength of our partnership with NordStar and the value of the support the team has delivered to date, and we are looking forward to continuing our relationship with them." Andrey Averyanov, deputy of CEO - technical director of JSC NordStar Airlines, said, "We're delighted to be extending our agreement with AJW Group. Having worked with AJW previously, we're confident that they are the ideal partner to manage our engines and help drive further efficiencies."



Executive Focus

Panasonic Avionics names Adri Ruiter as new Vice President of Operations

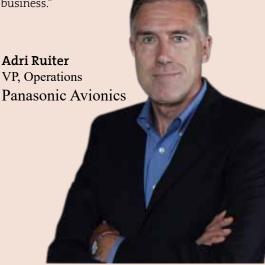
Panasonic Avionics Corporation, the world's leading supplier of inflight entertainment and communication systems appointed Adri Ruiter as its new Vice President of Global Operations.

With almost 30 years of experience in the aviation industry, Adri will be responsible for global operations activity, including operational strategy, program management, supplier management and global manufacturing to ensure the highest level of consistent customer delivery. Ruiter previously held a number of positions at Zodiac Aerospace, including president and CEO of Zodiac Seats US, where he was instrumental to Project Fusion, a joint seat integration program between Zodiac (then Weber Aircraft LLC) and Panasonic. The design of the integrated seat ultimately led to the introduction of Panasonic Avionics' industry-leading Eco Monitor family designed for the X Series IFE system.

Ruiter's most recent role at Zodiac was as director of Restore Margins, where he led group operational excellence workshops at Zodiac Aerospace sites across North America.

Mark Jennings, COO, Panasonic Avionics Corporation said, "We are delighted to welcome Adri to Panasonic Avionics. As the world leader in inflight entertainment and connectivity, we have over 300 airline customers around the world, each with their own sets of requirements for hardware, software, and system performance. Adri's unique experience within the cabin industry will bring a greater focus to Panasonic, ensuring that we will always deliver the best product, on time, with the highest quality and backed by a support process that ensures the best long-term return on their investment." Adri Ruiter, VP of Operations, Panasonic Avionics Corporation, said, "It is with great pleasure that I take up this

important role at Panasonic and I'm excited to be part of an organization world-renowned for its inflight entertainment and connectivity technology. I look forward to working with the team to drive operational excellence within the business."



Martin Lutz appointed as new CEO for Lufthansa Technik Vostok Services



Martin Lutz, CEO, Lufthansa Technik Vostok Services

Martin Lutz has been named as the new CEO of Lufthansa Technik Vostok Services, with effect from 25 September. He was working as the Demand Manager at Lufthansa Technik AG in Munich. Martin Lutz is replacing Andreas van de Kuil, who had served as CEO of Lufthansa Technik Vostok Services since 2015. "In Martin Lutz, we have found an experienced manager, whose duties to date equip him ideally for this task, in particular his work in the fields of strategic sales forecast controlling and customer management. He is sure to continue the work of Andreas van de Kuil seamlessly," says Dmitri Zaitsev, vice president corporate sales Eastern Europe & CIS at Lufthansa Technik.

International Events

| EVENT | DATE | VENUE |
|--|-----------------------------|--|
| MRO Europe 2017 | 3-5 Oct 2017 | London, UK |
| NBAA Business Aviation Convention & Exhibition (NBAA-BACE) | 10-12, October 2017 | Las Vegas Convention Center Henderson Executive Airport Las Vegas, NV |
| MRO Asia-Pacific | 31 October 2, November 2017 | Singapore Expo Convention and Exhibition Centre, Singapore |
| Dubai Air Show | 12 -16, November 2017 | DWC, Dubai Airshow Site |
| IATA Aviation Data Symposium | 15-16 Nov 2017 | Miami, USA |
| Aerospace & Defence MRO South Asia Summit | 18 -19 January 2018 | New Delhi, India |
| MRO Middle East | 23-24, January 2018 | Dubai World Trade Centre Dubai, UAE |
| Singapore Air Show | 6-11, February 2018 | Changi Exhibition Centre |



Contact Us:

MRO Business Today

Email Us : info@mrobusinesstoday.com

For Web Advertisement : nancymatthews@mrobusinesstoday.com

For Editorial : editorial@mrobusinesstoday.com