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CANSO Latin America and Caribbean Conference 2019

**Shaping the future of ATM through
collaboration and innovation**

18-20 November, Willemstad, Curaçao

HOST



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CANSO – the Civil Air Navigation Services Organisation – is the global voice of air traffic management (ATM) worldwide. CANSO members support almost 90 percent of world air traffic. Members share information and develop new policies, with the ultimate aim of improving air navigation services (ANS) on the ground and in the air. CANSO represents its members' views to a wide range of aviation stakeholders, including the International Civil Aviation Organization, where it has official Observer status. CANSO has an extensive network of Associate members drawn from across the aviation industry.



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Be part of the future of air traffic management



With CANSO's members supporting almost 90 per cent of world air traffic, CANSO is the global voice of air traffic management (ATM). Join today to help shape the future of a safe, efficient and seamless airspace.



Be heard

By governments, regulators
and key stakeholders



Be connected

Build your network through CANSO
events and digital platforms to reach
20,000 people



Be inspired

Take advantage of the
40+ publications online and
160+ presentations per year



Be active

Contribute to industry-defining best
practice and thought-leadership through
CANSO events and workgroups



Be innovative

Showcase how your technology can
help the industry and offer new ideas
to common challenges

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Dutch Caribbean Air Navigation Service Provider (DC-ANSP) was founded as Netherlands Antilles Air Traffic Control ("NAATC") which was incorporated in Curaçao on 9 February 2005 and became operational on 1 April 2006. DC-ANSP is responsible for the Air Traffic Services ("ATS") within the Curaçao Flight Information Region (FIR).

In addition to Air Traffic Services, DC-ANSP provides Aeronautical Information Services ("AIS") for the Dutch Caribbean islands.

The mission statement of DC-ANSP; "The autonomous and professional air navigation service provider which guarantees safety, environmental sustainability and efficiency to the stakeholders of the Curaçao Flight Information Region (FIR)" is carried out with safety being the number one priority with the ultimate objective to reach the vision; "To be recognized for excellence in air navigation service provision".

DC-ANSP has a number of important projects in progress. A major milestone will be reached with the implementation of space-based ADS-B in the fourth quarter of 2019, which will increase safety and efficiency. This will allow DC-ANSP to increase flexibility for the system users over the cross-regional and intersecting routes it manages and facilitates seamless transitions between the neighbouring FIRs. Other projects such as Radar Data sharing, Air Traffic Flow Management, a new Air Traffic Management (ATM) system and improved new ATM facilities, are innovations which will further improve the future air traffic, effortless and seamless for the users of the Curaçao FIR and the region.

It is important to the future of the aviation industry and to the future of air traffic to keep up with the latest technologies and innovations.

With the certification of DC-ANSP Safety Management System (SMS) in 2017 and currently being on course to become ISO9001:2015 certified in 2021, DC-ANSP contributes in making the industry safer and more efficient. DC-ANSP is committed to continue to keeping the skies safer and more efficient for years to come.



canso.org/dutch-caribbean-air-navigation-service-provider-dc-ansp



ANSP

Dutch Caribbean Air Navigation Service Provider

We guide you home safely!



HIGH ALT VERSION 2 FOR AIRPORT REVIEW

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Aireon is operating a space-based air traffic surveillance system for Automatic Dependent Surveillance-Broadcast (ADS-B) equipped aircraft throughout the entire globe. Aireon harnesses next-generation aviation surveillance technologies that were previously only ground-based and, for the first time ever, extend their reach globally to significantly improve efficiency, enhance safety, reduce emissions and provide cost savings benefits to all stakeholders. Real-time ADS-B surveillance covers oceanic, polar and remote regions, as well as augment existing ground-based systems that are limited to terrestrial airspace. In partnership with leading ANSPs from around the world, like NAV CANADA, ENAV, NATS, the Irish Aviation Authority (IAA), Naviair, as well as Iridium Communications, Aireon has successfully deployed the first ever, global, space-based air traffic surveillance system.



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THE FUTURE OF AIR TRAFFIC SURVEILLANCE IS HERE.



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CANSO staff





Welcome

Welcome to CANSO's Latin America and Caribbean Conference 2019 – your annual event dedicated to transforming ATM in the region. CANSO is pleased to bring you this conference with support from our host, Dutch Caribbean Air Navigation Service Provider (DC-ANSP), lead sponsor Aireon and our other sponsors and exhibitors.

Aviation is a crucial enabler of growth and connectivity and last year the industry went through a boom – with the introduction of 64 new routes across Latin America and Caribbean. Handling this increase in air traffic safely, efficiently and with minimum impact on the environment requires innovation and, more importantly, collaboration.

One example of innovation delivered through collaboration is COCESNA (Corporacion Centroamericana de Servicios de Navegacion Aerea) which is helping reduce the environmental impact of aviation by enabling more direct traffic routes and more responsible technologies. This initiative has already resulted in a 14.45% reduction in energy consumption. Another example is CADENA – CANSO's ATM Data Exchange Network – which many regional members are involved in and is providing benefits across the region.

As well as working together to improve efficiency, there are some great individual examples of innovation by CANSO members such as the introduction of Voice over IP in Cuba which is on track for delivery in 2020, the introduction of RNAV approaches in Curaçao and the region's first remote tower which went into operation in Santa Cruz, Brazil in October 2019.

CANSO's role is to connect you to industry experts from across regions and the globe, to facilitate the sharing of best practice and guidance, and to promote problem-solving and collaboration amongst our members, and this event has been designed with those goals in mind.

I hope you will find the next few days useful and that you go back to your organisations with fresh insight and new friends!

Sincerely,

Simon Hocquard

CANSO Director General

Programme



Conference Venue Details

Renaissance Curaçao Resort
Baden Powellweg 1
Willemstad, Curaçao



Monday 18 November 2019

● **10:30-11:00**

Sponsored Workshop Registration

📍 Ballroom Foyer, First Floor

● **11:00-13:00**

Sponsored Workshop – Space-based ADS-B is Live: Certification and Usage in the LATAM/CAR Region

📍 Ballroom Foyer, First Floor

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Now that the Aireon system is officially operational, Aireon has been working with each Air Navigation Service Provider (ANSP) customer to deploy space-based ADS-B in their airspace. This unveils unique benefits of what full air traffic surveillance service can do for them: how it can improve safety; how it can improve efficiency; and how it can improve the services that the ANSP provides to their airline customers. This process reveals a distinctive solution, each time, for each customer.

As a ground-breaking technology, Aireon and its partners are working alongside one another to implement space-based ADS-B into their air traffic control systems. Join Aireon, customers and partners for a workshop where we explore the regulatory approval process, system implementation and usage of space-based ADS-B.

The following topics will be covered:

- The Aireon System
 - System Deployment Update
 - Industry Usage and Capabilities
 - System Implementation and Customer Service
 - Data Distribution through the MEVA Network
 - Regulatory Approval
 - Operational Trials
 - Use of space-based ADS-B for Air Traffic Flow Management (ATFM)
- Jacques Lasten, Operations Director, DC-ANSP
 - Ernest Arzu, Sub-Director ANS, COCESNA

19:00-21:00

Welcome Reception

📍 Renaissance Curaçao Resort, Riffort Wall

Dress code: Smart casual

The Welcome Reception is a 5-minute walk.

From the Renaissance Curaçao Resort Hotel, please take the lift to the 2nd floor and follow the directions to the Infinity Beach and Pool, from the Infinity Beach and Pool cross the bridge towards the Riffort Wall.

Staff will gladly assist you.

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Tuesday 19 November 2019

08:00-09:00

Conference Registration

📍 Ballroom Foyer, First Floor

08:00-18:00

Exhibition

📍 Atrium, First Floor

09:00-09:40

Opening Remarks

📍 Ballroom, First Floor

- Simon Hocquard, Director General, CANSO
- Julio Siu, Deputy Regional Director, ICAO North American, Central American and Caribbean (NACC) Office
- Micilia Albertus-Verboom, Director General, DC-ANSP and Chair, Latin America and Caribbean CANSO CEO Committee (LAC3)

09:40-10:00

Keynote address

📍 Ballroom, First Floor

- Mrs. Zita Jesus-Leito, MBA Minister of Traffic, Transport and Urban Planning, Government of Curaçao

10:00-11:00

Airport – Collaborative Decision Making (A-CDM): A Mindset and a Working Method

📍 Ballroom, First Floor

A-CDM is a mind set and working method involving the main stakeholders of an airport, the ANSP, airport operator, ground handlers, and airlines. The objective is to improve the performance of airport operations and provide better predictability by enabling stakeholders to work together as a team for mutual benefit. This process is based on transparency and sharing information between the main stakeholders, and starts with the establishment of collaborative working methods and practices.

This panel will offer different industry perspectives on the process, principles and benefits of A-CDM and suggest approaches to regional collaboration on implementation.

- Major Brigadier Ar Walcyr Josué de Castilho Araujo, Vice-Director, DECEA

- Ing. Gabriel Giannotti, President and CEO, EANA S.E.
- Jose Antonio Ruiz, Regional Director Safety and Flight Operations, IATA
- Sergio Martins, Director, Air Traffic Management – Latin America, SAAB

Moderator:

- Rüdiger Schwenk, Head of International Affairs, DFS Deutsche Flugsicherung GmbH

11:00-11:45

Networking Break

📍 Atrium, First Floor

11:45-12:45

Big Data and the ANSP: How ATM can Secure the Information and Insight Needed to Transform Operations

📍 Ballroom, First Floor

Alongside new technologies, the generation and analysis of big data has significant potential to transform ATM. Derived from flight plans, radars, surveillance, weather, communication, and other sources, big data is valuable information for ANSPs to share and analyse. It can inform decisions and help identify new solutions, concepts and procedures that increase safety and enhance performance.

While the pace of digital transformation in ATM is rapid, there is still IT architecture in operation that cannot receive, manage or process the large volume of information needed to analyse and improve performance.

During this session industry suppliers will explore examples of how the generation and analysis of big data can increase ANSP efficiency, improve collaboration, optimise operations and enhance the airspace, and discuss technologies that can help unlock the industry's data-driven potential.

- Cyriel Kronenburg, Vice President, Aviation Services, Aireon
- Eduardo Dueri, Managing Director, Gallagher Aerospace

- **Julio Siu**, Deputy Regional Director, ICAO North American, Central American and Caribbean (NACC) Office
- **François Delille**, Director of ATM Product and Business Strategy, Thales

Moderator:

- **Coleen Hawrysko**, Operations Programme Manager, CANSO

12:45-13:45

Lunch

📍 Atrium, First Floor

13:45-14:45

Why Collaboration is Key to Effective Contingency Planning

📍 Ballroom, First Floor

Air navigation services are susceptible to disruption caused by natural disasters, unplanned equipment outages and political tension. In the event a flight information region (FIR) declares limited, partial or zero air traffic services (ATS), a contingency plan becomes an essential component in ensuring safety and the continuity of air transportation services. Comprehensive and coordinated planning between air traffic control facilities and stakeholders can avert disruptions or mitigate their impact.

Contingency plans cannot be developed in isolation. All stakeholders and adjacent FIRs must be included as part of the solution. Sharing information is essential for ANSPs and stakeholders to plan and make informed decisions.

This panel will analyse real contingency scenarios, share lessons learned, and explore the work being developed at a regional level to enhance operations. This includes the importance of a pre-coordinated re-route structure, coordinated emergency plans and the steps the region needs to take to effectively cooperate during a contingency situation.

- **Francisco Javier Fernandez Padiz**, Deputy Director General, ECNA
- **Crystal Oseana-Rodriguez**, Quality Assurance & Safety Manager, DC-ANSP

- Rohan Garib, Executive Manager, Air Navigation Services, Trinidad and Tobago Civil Aviation Authority
- Juan César Thomas Burgos, Director, Academia Superior de Ciencias Aeronáuticas, ASCA, IDAC

Moderator:

- Anthony C. Tisdall, Vice President, Global Affairs and Aviation Solutions, JMA Solutions

14:45-15:45

From ATM to UTM: The Future of Drone Management

📍 Ballroom, First Floor

Increasing unmanned aerial vehicles (UAVs) operations and the need for safe integration into airspace has led to the development of a new concept of air navigation service provision – unmanned aircraft system (UAS) traffic management (UTM).

UTM requires ANSPs to collaborate with civil aviation authorities and industry partners to develop concepts of operation and procedures for implementation. To do this effectively, ANSPs must identify the UTM services, technology, and responsibilities required for permitting UAS operations.

This session is going to explore the use of UTM and its benefits. This includes expert insight into how to safely integrate and manage UAS operations in and around controlled airspace, the requirements and lessons learned from the industry.

- Teri Bristol, Chief Operating Officer, FAA
- Mario Alberto Ralon Fonseca, Regional Sales Manager Latin America, Frequentis
- Alejandra Hertfelder, ATM Expert/Flight Procedure Designer, MovingDot

Moderator:

- Wayne Osse, Chief Architect, Global Aviation and Transportation, Solace

● **15:45-16:30**

Networking Break

📍 Atrium, First Floor

● **16:30-17:45**

Optimising Air Traffic Management Incident Investigation

📍 Ballroom, First Floor

Accident or incident investigation in ATM involves the analysis of air traffic control voice and radar recordings and an interview process. As air traffic management changes from human management to an automated environment, automated systems can support investigators in obtaining detailed information, from reconstructing the event to identifying the cause of the incident or accident. In addition, incident reporting and recruitment of additional personnel can minimise the risk of an event occurring in the future.

This session will explore the importance of investing in and committing to a range of measures to prevent accidents/incidents from occurring. Learn why securing buy-in for safety initiatives from everyone in the organisation is important, and how just culture and safety management systems play a significant role in improving performance. Get insight into voluntary safety reporting, how to prepare for an effective interview and why cooperation among ANSPs is highly recommended in the investigation.

- Shayne Campbell, Safety Programme Manager, CANSO

● **17:45-18:00**

Closing Remarks

📍 Ballroom, First Floor

● **19:30-22:30**

Conference Dinner

📍 Villa Maria

Dress code: Casual

Please meet in the Renaissance Curaçao Resort hotel lobby for a 19:00 departure. Buses will depart the Conference Dinner at 22:30 returning to the Renaissance Curaçao Resort hotel.

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Wednesday 20 November 2019

● **08:00-18:00**

Exhibition

📍 Atrium, First Floor

● **08:30-09:00**

CANSO Workshop Registration

📍 Ballroom, First Floor

● **09:00-17:00**

CANSO Workshop: Navigating the Rapidly Changing World of Technology

📍 Ballroom, First Floor

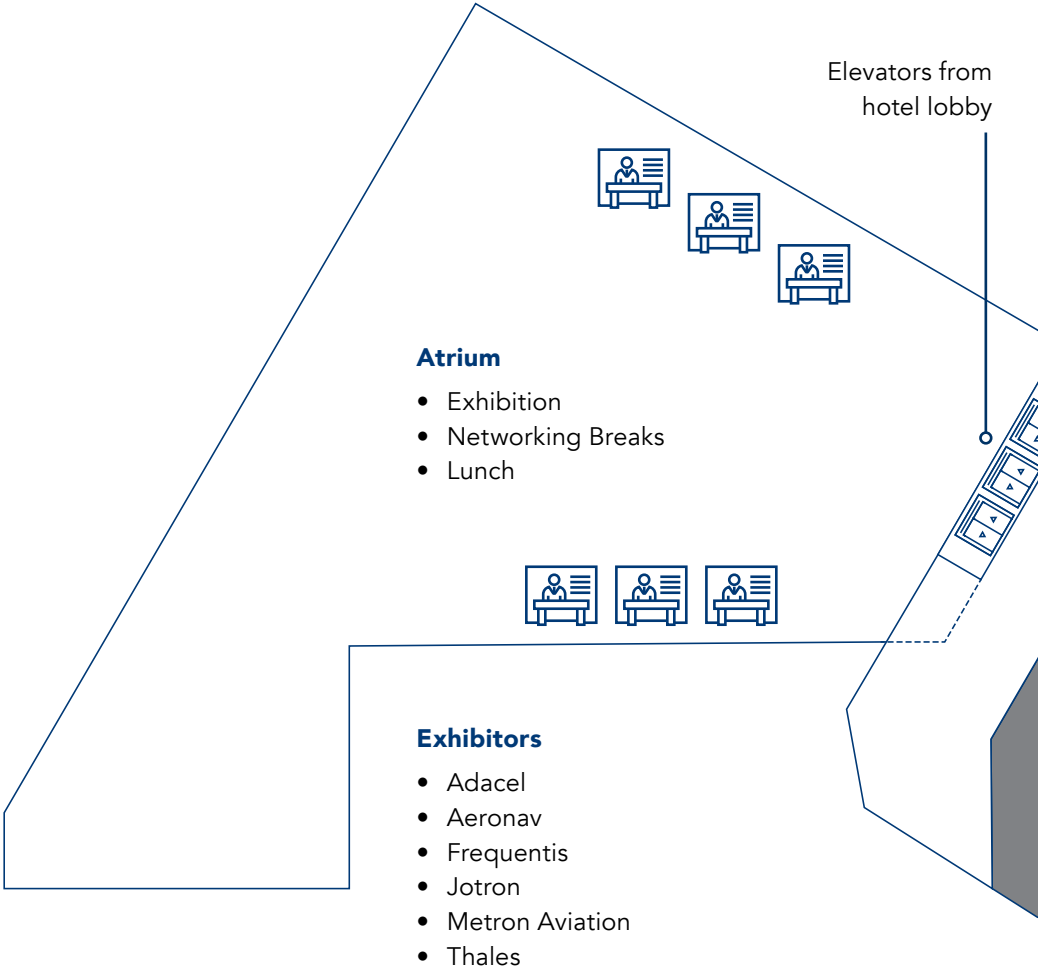
The acceleration of technological development in our industry can make it difficult to know where to focus your efforts for maximum return and how to cut through the hype around the latest trend and determine those technologies that warrant your attention.

This workshop, organised by the CANSO Strategic Technology Workgroup (STWG), will help members learn more about the shortened development cycle for new technologies and how that affects their future investment planning and creates new regulatory challenges. In an interactive format we will look at where we thought five years ago that we would be in 2020 versus where we are today, and discuss the reasons why and the challenges members in the region are facing. Attendees will have the opportunity to learn about new technologies available and will hear case studies of successful deployment. We will examine the impact of major emerging technologies in ATM that were not foreseen and how they are impacting planning, both in Latin America and the Caribbean and globally. Attendees will also discuss how CANSO can best support members in their understanding of current and emerging technology, and effective planning and implementation.

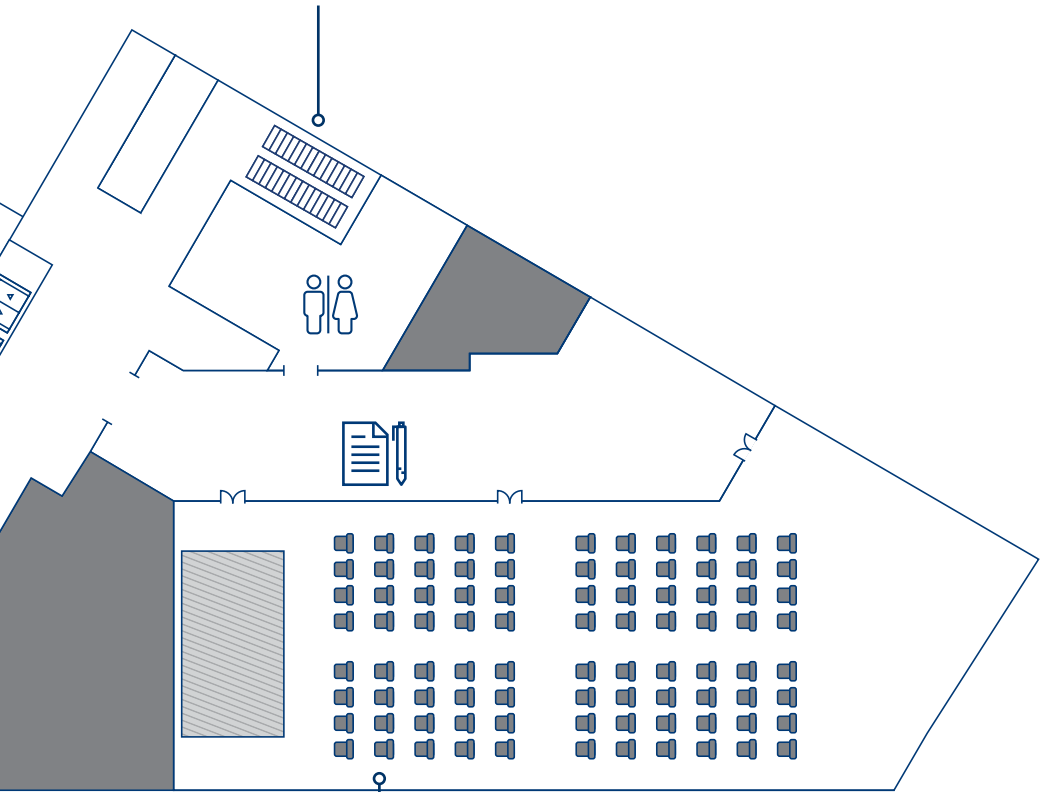
Finally we will discuss best practices in technology acquisition from determining the need and defining requirements through post-delivery support and relationship management. We will discuss how to consider issues like interoperability and how to navigate new procurement models like a pro.

Floorplan

Ballroom and Atrium, First Floor



Stairs from hotel lobby



Ballroom

- Sponsored Workshop
- Conference
- Conference Workshop



**CANSO Global
ATM Summit
and 24th AGM**

**BAKU
2020**

Save the Date: 9-12 June 2020

HOSTED BY



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Aireon is operating a space-based air traffic surveillance system for Automatic Dependent Surveillance-Broadcast (ADS-B) equipped aircraft throughout the entire globe. Aireon harnesses next-generation aviation surveillance technologies that were previously only ground-based and, for the first time ever, extend their reach globally to significantly improve efficiency, enhance safety, reduce emissions and provide cost savings benefits to all stakeholders. Real-time ADS-B surveillance covers oceanic, polar and remote regions, as well as augment existing ground-based systems that are limited to terrestrial airspace. In partnership with leading ANSPs from around the world, like NAV CANADA, ENAV, NATS, the Irish Aviation Authority (IAA), Naviar, as well as Iridium Communications, Aireon has successfully deployed the first ever, global, space-based air traffic surveillance system.

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Frequentis is an international supplier of communication and information solutions for control centres with safety-critical tasks. Focusing on technology and innovation, particularly on the design of optimised human-machine interfaces, Frequentis is the world market leader in voice communication systems for air traffic control, in message handling solutions as well as aeronautical information management and is leading the way with innovative solutions for resource optimization and collaboration ensuring safety always comes first. This comprises voice, data and recording solutions, surveillance processing and distribution, ATM-grade networks, virtualised private cloud and IP-based collaboration tools. Integrated solutions culminate in turnkey control centres for digital towers and ATC control centres.

Bronze Sponsor and Exhibitor



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Metron Aviation is helping the Air Traffic Flow Management industry minimize delays, reduce fuel costs and balance demand with capacity. Metron supports customers with a variety of ATFM tools and services that include decision management, post operational reporting and analysis, weather translation, environmental impact, assessment services, and advanced interactive ATFM simulation training. To solve your ATFM challenges, think Metron Aviation.

Bronze Sponsor and Exhibitor

The logo for Thales, consisting of the word "THALES" in a bold, blue, sans-serif font.

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The people we all rely on to make air travel safe and efficient rely on Thales. Thales is a global leader in air traffic management, designing, delivering and supporting the aviation systems that keep our skies running. Our advanced technologies and ground-breaking innovations deliver solutions that are continually adapting to the ever-changing needs of the aviation industry. With engagement in all major ATM modernization initiatives, NextGen, ICAO ASBUs, and SESAR, Thales focuses on international harmonization. Our strong involvement in these initiatives, and the alignment of our product roadmaps, ensures that our solutions have been extensively tested, certified and validated.

Notebook Sponsor



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Headquartered in Washington, DC, JMA Solutions is an award-winning consulting firm with more than 14 years of experience delivering outstanding customer service to our government clients. JMA Solutions is a Service-Disabled Veteran-Owned, Certified Woman-Owned, Disadvantaged Business Enterprise company, and CMMI services level 3 appraised, ISO 9001:2015 certified and DoD NIST 800-171 verified. We offer access to a network of subject matter experts who consult with our government clients on critical short-and long-term projects. We are committed to our customer's values and we have a reputation for exceeding business needs with exceptional results.

Exhibitor



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A world leader in Air Traffic Management and Air Traffic Control simulation training solutions, Adacel is a trusted partner of air navigation service providers worldwide.

Adacel's air traffic management solution—Aurora—incorporates the latest CNS and ATM technologies, is space-based ADS-B ready and has been successfully adopted in airspaces controlled by Fiji, France, Norway, Iceland, New Zealand, Portugal and the United States. The system can be used from oceanic, en route, terminal and approach sectors to control tower units. Here, in the Latin America and Caribbean Region, Aurora is operational in French Guiana, managing traffic throughout the Rochambeau FIR from the ocean to Cayenne and will soon provide for Approach and Tower Control in Guadeloupe and Martinique.

Adacel is also the maker of MaxSim—the world's most broadly implemented air traffic control simulator, featuring industry-leading speech recognition, remarkable customization flexibility, and real-life-like simulation visuals. Currently in use in Curaçao, Saint Martin, Aruba and Trinidad and Tobago, MaxSim is part of Adacel's presence in 40+ countries and 250+ locations.

Exhibitor



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Aeronav specializes in Integrated Air Traffic Control (ATC) Systems, Prefabricated Control Tower Cabin, Mobile Control Towers, Ground-based Radio Navigation Aids (NavAids), Airfield Lighting Systems, Power Supply Systems and Control Tower Design. Aeronav services range from design, integration, installation, training and maintenance services to global turn-key solutions for Air Navigation Service Providers (ANSP), Aviation Organizations and Airport Authorities worldwide. All systems are commissioned in compliance with ICAO recommendations.

Exhibitor



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Indra is a leading supplier of ATM systems. The company has implemented its systems in more than 3,000 facilities located in over 140 countries. In the field of R&D, it is one of the companies with the most weight in the SESAR programme, the technological pillar of the Single European Sky, and a partner of the leading navigation service providers in Europe, including AENA, NATS, DFS and Eurocontrol, among others. Indra is the leading Spanish multinational consulting and technology firm and one of the main players in Europe and Latin America. Innovation is the cornerstone of its business and sustainability.

Exhibitor



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Jotron develops and manufactures state of the art ground to air communication products and systems and offers a complete range of radio communication equipment, from complex integrated systems to stand-alone radio solutions for both airport and maritime applications worldwide.

Ricochet, a Jotron synchronized record and replay system has been specifically designed for the air traffic control (ATC) communications, navigation and surveillance markets.

Ricochet captures, replays and analysis data, data which can be used to reconstruct any incident. This flexible system supplies the best unified recording thereby, ensuring perfect synchronization of audio, radar, screens and closed-circuit television.

The Jotron RRC 7700, Remote Radio Controller is a very cost effective and flexible solution, that accommodates both small and medium sized airports, emergency systems, last resort solutions, portable shelters, ports and towers.

Exhibitor



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Solace powers SWIM at small and large ANSPs with on-premise and cloud products and services. The SWIM Demonstration Toolbox provides a free environment to experiment and get familiar with SWIM that fosters a bottom-up approach. Regional SWIM implementations can benefit from the rich support for federated SWIM nodes that the SWIM Demonstration Toolbox implements. Solace products and services are used in production in many industries across the world where information management is critical including positive train control, Telcos and many financial systems.

Forthcoming Events



CANSO in Madrid 2020

📍 Madrid, Spain

📅 9-12 March

CANSO brings together a number of high profile events before World ATM Congress and countless networking opportunities over the course of the entire CANSO Madrid Week.

- ✔ 4 days
- ✔ 700 delegates
- ✔ 74% ANSPs
- ✔ 57 countries



CANSO Asia Pacific Conference 2020

📍 Port Moresby, Papua New Guinea

📅 12-15 May

Hosted in one of the world's busiest air transport regions, this is the one event in the year that unites senior ANSP executives, colleagues and suppliers from across the region.

- ✔ 2.5 days
- ✔ 150+ delegates
- ✔ 67% ANSPs
- ✔ 29 countries



CANSO Global ATM Summit and 24th AGM

📍 Baku, Azerbaijan

📅 9-12 June

CANSO brings together global leaders from across the aviation industry to discuss key contemporary issues and projects.

- ✔ 2.5 days
- ✔ 200+ delegates
- ✔ 64% ANSPs
- ✔ 49 countries

A quality service from



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Aviation System Block Upgrade (ASBU)

Methodology and Best Practices for ASBU Implementation



More Information and Registrations
<http://mai.mitrecaasd.org>

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