



**canso**  
**AFRICA**  
**CONFERENCE**

12-14 SEPTEMBER 2016  
ACCRA, GHANA

HOSTED BY



LEAD SPONSOR





# CANSO Africa Conference

Accra, Ghana, 12 -14 September 2016



## Organised by CANSO

CANSO – the Civil Air Navigation Services Organisation – is the global voice of air traffic management (ATM) worldwide. CANSO Members support over 85% 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.



## Hosted by Ghana Civil Aviation Authority

The Ghana Civil Aviation Authority (GCAA) is the regulatory agency for air transportation in the Republic of Ghana. It also provides air navigation services within the Accra Flight Information Region (FIR), which comprises the airspace over Ghana and a large area across the Atlantic Ocean in the Gulf of Guinea.

The GCAA was established in 1930 as a unit within the Public Works Department of Ghana. Later, in 1953, it was granted Departmental Status. It became an Authority under PNDC Law 151 from 16th May, 1986. In 2004, the GCAA Act was enacted to replace PNDC Law 151.

The Civil Aviation Act, Act 678 of November 2004, provides for the establishment of a Civil Aviation Authority, which will focus on the core functions of airspace management and safety regulation, while allowing for a different organisation to handle airport development and operations.

In February 2016, the Ghana Civil Aviation (Amendment) Act, 2016 (Act 906) was passed. The Act empowers the Director-General of the Authority to issue Technical Directives to enhance aviation safety and security oversight. Studies have also commenced to further separate the air navigation services provider from the regulator.



## Lead Sponsor Aireon

Aireon is deploying a space-based air traffic surveillance system for ADS-B equipped aircraft throughout the entire globe. Aireon will harness next-generation aviation surveillance technologies that are currently 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 will cover 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, the Irish Aviation Authority (IAA), ENAV and Navair, as well as Iridium Communications, Aireon will have an operational, global, space-based air traffic surveillance system by 2018.

# Ensuring Safe and Efficient Airspace - Separating Regulation from Service Provision



## Venue

### Mövenpick Ambassador Hotel Accra

PMB CT 343, Cantonments Ridge  
Accra, Ghana  
Tel: +233 302 611 000



## Dress Codes

12 September: Welcome Reception - **Smart casual**  
13 - 14 September: Conference - **Business attire**  
13 September: Conference Dinner - **Smart casual**

*Smart casual: Collared shirts / polo shirts, no ties required for men. Trousers or casual dress for women.*

*Business attire: Collared shirts, jacket and ties for men. Business wear for women.*

## Event Contact



**Michelle Sachtler**  
Events Coordinator  
Tel: +31 651 884 000  
michelle.sachtler@canso.org

## Sponsorship and Exhibition Contact



**Helen Parker**  
Development Manager  
Tel: +31 610 992 610  
helen.parker@canso.org



# SPACE BASED ADS-B UNLOCK YOUR ATM POTENTIAL



Imagine extending the safety and operational benefits of air traffic surveillance to every region of the world, without the investment in ground infrastructure. Instant global air traffic surveillance, significant airline fuel savings and substantial safety enhancements at a fraction of the cost of radar.

VISIT [AIREON.COM](http://AIREON.COM) TO DISCOVER THE FUTURE OF GLOBAL AVIATION

Globally operational in 2018.



# Ensuring Safe and Efficient Airspace - Separating Regulation from Service Provision



Foreword by Jeff Poole,  
Director General, CANSO

Dear colleagues,

Welcome to the fourth annual CANSO Africa Conference, kindly hosted by Ghana Civil Aviation Authority (GCAA) and with Aireon as lead sponsor. Since the first edition in 2013, this conference has rapidly developed into an important forum where CANSO Members can discuss the key issues facing the ATM industry in Africa; agree areas where Members can cooperate to harmonise African airspace; and learn from industry experts about the latest processes and technologies to deliver an even safer and more efficient airspace. It also gives an opportunity for Members to network and exchange best practices.

The theme for this year's event is 'Ensuring Safe and Efficient Airspace – Separating Regulation from Service Provision'. This draws on two very important priorities in the region; improving operational safety and supporting institutional change.

Safety is the industry's number one priority and partnership is one of the three core pillars of Vision 2020, CANSO's strategic framework for the ATM industry. It is therefore appropriate that the conference will address how ANSPs can work in partnership with each other to improve safety across Africa. Last year, following an initiative by the President of ICAO, African States and their ANSPs agreed to implement a peer review mechanism to address critical safety issues in ATM, the Africa ANSP Safety Initiative. This is a great example of where ANSPs are working in partnership to help each other implement effective safety management systems and determine SMS maturity levels. The two sessions on Wednesday morning will be immensely valuable for Members.

The separation of air navigation service provision from the regulatory oversight function is a long-standing CANSO goal and is an important objective for the CANSO Africa region. Sessions will look at the benefits of separation and learn from the experience of ANSPs in other regions.

Other topics include: removing perceived sovereignty barriers to provide air traffic services across borders; improving efficiency through collaborative decision-making; and how organisations can best match their equipage requirements with the Aviation System Block Upgrades (ASBUs) so they can make the right investment decisions at the right time.

The conference is followed by a safety seminar on 15-16 September, organised by CANSO in partnership with the Federal Aviation Administration (FAA). Members will learn practical measures to improve safety management, including creating a Just Culture, and review actual regional events to help the reporting and analysis process. This is a very worthwhile addition to main event programme, and we hope you find it useful.

With so much to discuss and share among our Members and industry experts, the conference and safety seminar will provide multiple opportunities to learn and engage. I would like to thank Simon Allotey, CEO of GCAA, alongside Aireon and our other sponsors, for helping to make the conference happen. The teams have worked tirelessly to help deliver a relevant, useful and varied programme and their knowledge and support is much appreciated.

I wish everyone attending a very pleasant stay in Accra and hope you will actively participate in ensuring safe and efficient airspace in Africa, both now and in the future.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Jeff Poole", written over a horizontal line.

Jeff Poole

## MONDAY 12 SEPTEMBER 2016

15:00 - 18:00

Pre Conference Registration - *Meet & Dine Foyer*

---

19:00 - 21:00

Welcome Reception and Cocktails - *Meet & Dine Foyer*

---

## TUESDAY 13 SEPTEMBER 2016

07:30 - 09:00

Conference Registration - *Exhibition Area*

---

09:00 - 10:00

Opening Speeches - *Ballroom 1*

**Jeff Poole**, Director General, CANSO  
**Thabani Mthiyane**, Chair AFC3, CANSO and CEO, ATNS  
**Simon Allotey**, Director General, Ghana CAA  
**Hon. Fifi Kwetey**, Minister of Transport, Government of Ghana

Moderator: **Boni Dibate**, Director Africa Affairs, CANSO

---

10:00 - 11:15

Setting the Scene - *Ballroom 1*

Separation of air navigation service provision from the regulatory oversight function is a long-standing CANSO objective and is well-established in ICAO guidance material. Greater financial and operational autonomy for the air navigation service providers (ANSP) encourages a business-like approach to service delivery and an improved quality of service. Separation is consistent with the principles of good governance, with the regulatory oversight function seen as independent and transparent.

The opening panel will set the scene by looking at some of the benefits of separation.

**Barry Kashambo**, Regional Director, Eastern and Southern African Office, ICAO  
**Raphael Kuuchi**, Vice President Africa, IATA  
**Peter Marais**, Special Advisor to CEO, ATNS  
**Ali Tounsi**, Secretary General, ACI-Africa

Moderator: **Kimberly Pyle**, Safety Programme Manager, CANSO

---

11:15 - 11:45

Refreshment Break - *Exhibition Area*

The refreshment break is kindly sponsored by ATNS





# Ensuring Safe and Efficient Airspace - Separating Regulation from Service Provision



**TUESDAY 13 SEPTEMBER 2016 - continued**

**11:45 - 13:00**

## **Different Models of Separating Service Provision from Regulation: Challenges and Opportunities**

### **Ballroom 1**

Since the 1980s most States have separated their air navigation services from their regulators. There are different reasons why States have done this, influenced by history and culture, privatisation and / or globalisation, existing funding structures, or changes in other transport-related departments within its government.

This session will learn from the experiences of different CAAs and ANSPs that have separated service provision from regulation and those that have not. We will learn how they have funded themselves, their governance structures and whether they are autonomous or not. We will also learn from their successes and failures.

**Simon Allotey**, Director General, Ghana CAA

**Reuben Lubanga**, Former Director Air Navigation Services, Kenya CAA

**Frank Chinabu**, Director, Air Navigation Service, Zambia Airports Corporation Limited

**Thabani Myeza**, Executive, Commercial Services, ATNS

**Hamza Johari**, Director General, Tanzania Civil Aviation Authority

*Moderator: **Dumisani Sangweni**, Executive Strategy and Optimisation, ATNS*

**13:00 - 14:00**

### **Lunch Break - Ballroom 2**

**14:00 - 15:00**

## **Aligning Equipage Requirements with the Block Upgrades - Ballroom 1**

The ICAO Aviation System Block Upgrades (ASBU) modules define expected operational improvements and drive the development of what is required for implementation. The accompanying technology roadmaps define the lifespan of the specific technologies needed to achieve those improvements. Organisations need to make investment decisions well in advance and the technology roadmaps provide certainty as they identify the pre-requisite technologies that will provide the operational improvements and related benefits. Importantly, the technology roadmaps will be systematically reviewed and updated every three years according to ICAO.

This session looks at how organisations can best match their equipage requirements with the ASBUs so they can make the right investment decisions at the right time.

**Prosper Zo'o Minto'o**, Deputy Regional Director, Eastern and Southern African Office, ICAO

**Martey Boye Atoklo**, Deputy Director General (Technical), Ghana CAA

**Cyriel Kronenburg**, Vice President Aviation, Aireon LLC

**John T. Kagoro**, Chairperson, AFI Planning and Implementation Regional Group (APIRG), and Director Airports and Aviation Security, CAA Uganda

*Moderator: **Peter Marais**, Special Advisor to CEO, ATNS*

World-class  
line-up of safety  
experts in  
sessions on:

Remotely  
Piloted Aircraft  
Systems (RPAS)  
and Air Traffic  
Control

Human  
Performance

Just Culture

Emergency  
Response Plans

Enhancing  
Aviation Safety  
and Security



**canso**

civil air navigation services organisation

# Join us at the **CANSO Global ATM Safety Conference**

6 - 11 November 2016  
Budapest, Hungary

For more information, please visit:  
[canso.org/canso-global-atm-safety-conference-2016](http://canso.org/canso-global-atm-safety-conference-2016)

Email: [events@canso.org](mailto:events@canso.org)  
Phone: +31 (0)23 568 5380

HOST

 **HungaroControl**

Hungarian Air Navigation Services

LEAD SPONSOR

 **Aireon**<sup>SM</sup>



# Ensuring Safe and Efficient Airspace - Separating Regulation from Service Provision



**TUESDAY 13 SEPTEMBER 2016 - continued**

**15:00 - 16:00**

## **Sovereignty and Air Navigation Service Provision - Ballroom 1**

State sovereignty is a fundamental principle of international law but it is often used as a reason for not harmonising airspace over large areas. Seamless and harmonised airspace is a key goal of the air traffic management industry; airspace based on the operational requirements of airspace users rather than on national borders. Without any diminution of sovereignty, States can delegate service provision to other parties and several States can join together to control regional airspace. For this to materialise, all stakeholders need to understand the true meaning of national sovereignty consistent with present and future political, economic and social realities.

This session will show how sovereignty is compatible with the delivery of cross border service provision; it will also look at the State's obligation under the Chicago Convention; and at how seamless and harmonised airspace can be achieved.

**KK Antwi**, Wing Commander, Ghana Military Department  
**Osman Saafan**, Director Safety and Security Management/CSO Military Affairs, DFS  
**Jeoff Matshoba**, Senior manager Air Traffic Management Planning, ATNS  
**Thorsten Wehe**, Executive Secretary, IFATSEA  
**Sidi Kone**, Head of Air Navigation Department, ASECNA

*Moderator: **Albert Taylor**, Regional Officer - Air Traffic Management and Search & Rescue, ICAO*

**16:00 - 16:30**

## **Refreshment Break - Exhibition Area**

*The refreshment break is kindly sponsored by ATNS*



**16:30 - 17:30**

## **Collaborative Decision Making (CDM) in Air Navigation Service Providers of Africa - Ballroom 1**

Collaborative decision making (CDM) is improving the performance of the aviation industry by ensuring that all stakeholders work closely together to exchange information, thereby improving efficiency and reducing delays. Advances in technology are leading the way towards free flight, in which the responsibility for the safe progress of an aircraft through airspace can be shared between the pilot and ATC. Under CDM, the management of traffic flows and associated decisions on allocating resources are made by the Airline Operational Control Centre (AOC).

In this session different players in the aviation industry will present us with their views of how CDM is currently managed in their environment and what needs to be done to improve collaboration among the players in the aviation industry in Africa.

**Gaborekwe Khambule**, Senior Manager, Aviation Meteorological Services, South African Weather Services  
**Keziah PA Ogutu**, Executive Vice President Africa & Middle East, IFATCA  
**Allan van der Heiden**, Chief ANS Oversight (ICAO Project OPAS), Directorate of Civil Aviation  
**Bastien Bernard**, Project and Quality Manager, DSNA

*Moderator: **Sandile Maphanga**, Operations Lead CANSO Africa Region and Manager, Central Airspace Management Unit ATNS*



# CANSO Africa Conference

Accra, Ghana, 12 -14 September 2016

---

## TUESDAY 13 SEPTEMBER 2016 - *continued*

**17:30 - 18:00**

### **Summary of the Day - Ballroom 1**

A summary of Conference day 1 given by **Thabani Mthiyane**, Chair AFC3, CANSO and CEO, ATNS

---

**18:30 - 21:30**

### **Conference Dinner - Pool Bar**

CANSO welcomes delegates and spouses to enjoy an African themed dinner by the hotel pool bar.

# The **easier, smarter way** to manage revenue.

Inaccuracies and errors in data collection and invoicing can result in loss of revenue, higher costs and poor cash flow for ANSPs.

Flightyield is the only fully integrated and managed aeronautical revenue service purpose-built for ANSPs, which simplifies and automates the billing process.

Transform your revenue generation model with Flightyield – a fully managed, cloud based service.

[www.flightyield.com](http://www.flightyield.com)

In association with



## WEDNESDAY 14 SEPTEMBER 2016

09:30 - 11:00

### Africa ANSP Peer Review Mechanism - *Ballroom 1*

The Africa ANSP Safety Initiative was launched in February 2015 to address some of the air navigation challenges that the Africa region is facing. The initiative seeks to observe and assess the degree of compliance with safety regulatory requirements and the provisions of a safety management system (SMS) if one is in place. The initiative has adopted the *CANSO Standard of Excellence in Safety Management Systems*, *CANSO SMS Implementation Guide*, and the *CANSO Safety Maturity Survey* as baseline guiding documents. ICAO has developed a manual to support the initiative.

The session will learn from IATA's experience of implementing the IATA Operational Safety Audit (IOSA) for airlines; consider the status of implementation of the ANSP peer review programme; identify problem areas; develop solutions; and plan for further action.

**Protus Seda**, Assistant Director, Safety and Flight Operations, IATA  
**Reuben Lubanga**, Former Director Air Navigation Services, Kenya CAA  
**Prosper Zo'o Minto'o**, Deputy Regional Director, Eastern and Southern African Office, ICAO  
**Boni Dibate**, Director Africa Affairs, CANSO

Moderator: **Albert Taylor**, Regional Officer - Air Traffic Management and Search & Rescue, ICAO

---

11:00 - 11:30

### Refreshment Break - *Exhibition Area*

The refreshment break is kindly sponsored by Indra



11:30 - 13:00

### Implementation and Validation of Safety Management Systems in Africa - *Ballroom 1*

Safety is the aviation industry's number one priority. Therefore, ensuring that each ANSP implements an effective safety management system (SMS) is the number one focus area for the CANSO Africa Region.

This session will include the following:

- An introduction by the CANSO Safety Programme Manager
- A presentation that explores how one Africa Region ANSP implemented its SMS based on the *CANSO Standard of Excellence in Safety Management Systems*
- A presentation on the new SMS assessment programme, the Standard of Excellence in Air Navigation Services – Safety (SEANS-Safety), which will help ANSPs identify areas of improvement while assessing compliance with ICAO Annex 19 requirements
- Q & A

**Kimberly Pyle**, Safety Programme Manager, CANSO  
**Tembisa Maphike**, Investigation and Standards Specialist, ATNS  
**Greg Myles**, SEANS-Safety Programme Manager, CANSO

# Ensuring Safe and Efficient Airspace - Separating Regulation from Service Provision



WEDNESDAY 14 SEPTEMBER 2016 - *continued*

13:00 - 14:00

Lunch Break - *Ballroom 2*

---

14:00 - 15:00

User Expectations Around a Highly Regulated Environment - *Ballroom 1*

Various stakeholders have an interest in the vast African airspace. Each has its own airspace needs and/or requirements and preferences for the use and organisation of that airspace. As a result of growing demands and changing requirements and preferences, a number of airspace users want to use the same parts of airspace at the same times. This is increasingly resulting in airspace scarcity and constraints.

This panel will discuss the efficiencies and benefits of the single sky concept and practice in the Africa region.

**Protus Seda**, Assistant Director, Safety and Flight Operations, IATA

**Dave Allanby**, General Manager Operations, SA Express

**Catherine Hoffman**, Director of Economic Regulation and Business Development, Ghana CAA

Moderator: **Albert Taylor**, Regional Officer - Air Traffic Management and Search & Rescue, ICAO

---

15:00 - 15:30

Summary and Close of the Conference - *Ballroom 1*

**Jeff Poole**, Director General, CANSO

---

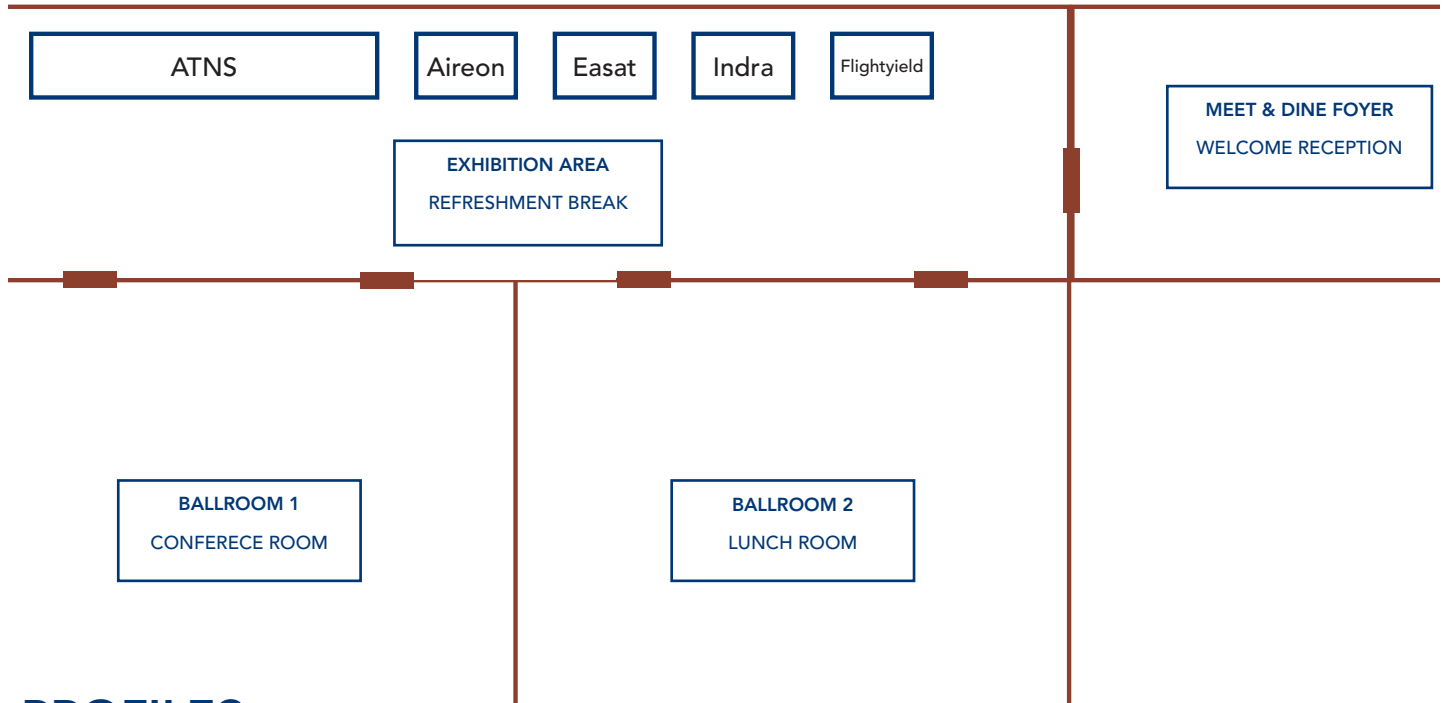
15:30 - 16:00

Refreshment Break - *Exhibition Area*

The refreshment break is kindly sponsored by Indra



## Conference and Exhibition Floor Plan



## PROFILES

### LEAD SPONSOR AND EXHIBITOR



Aireon is deploying a space-based air traffic surveillance system for ADS-B equipped aircraft throughout the entire globe. Aireon will harness next generation aviation surveillance technologies that are currently 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 will cover 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, the Irish Aviation Authority (IAA), ENAV and Naviair, as well as Iridium Communications, Aireon will have an operational, global, space-based air traffic surveillance system by 2018.

Contact Information:  
 Simon Arnold  
 1750 Tysons Blvd #1150, McLean, VA 22102, USA  
 +44 7825 299544  
 simon.arnold@aireon.com  
 aireon.com

### REFRESHMENT BREAK SPONSOR AND EXHIBITOR



Air Traffic and Navigation Services (ATNS) State-Owned Company (SOC) LIMITED

ATNS SOC Limited is responsible for air traffic control in approximately 10% of the world's airspace. Our services extend further than the familiar air traffic control service, into the provision of vitally important aeronautical information used for all flight planning purposes as well as search and rescue coordination activities and the maintenance of a reliable navigation infrastructure.

ATNS continues to serve the ATM community through the deployment of leading technologies, as well as continual improvement of safety levels. We understand that as an entity our excellence in business can only be appreciated and valued when we ensure financial, social and environmental sustainability.

Contact Information:  
 Mulomoni Nesengani  
 Eastgate Office Park, Block C, South Boulevard, Bruma, South Africa  
 +27 11 607 1000  
 MulomoniN@atns.co.za  
 atns.com



# Ensuring Safe and Efficient Airspace - Separating Regulation from Service Provision



## REFRESHMENT BREAK SPONSOR AND EXHIBITOR



Indra is the premier Information Technology Company in Spain and a leading IT multinational in Europe and Latin America. Its ATC, Surveillance Radars, Nav aids, Communications and Airports Systems are operational on all continents. Indra's extensive product portfolio includes forefront technology applications of 4D trajectory FDP, AIS, VCS, CDM, A-SMGCS, ADS-B, MLAT, or WAM. It provides country-wide systems on a turnkey basis. Indra invests EUR 20 million per year in R&D and plays a leading role in SESAR.

This year, Indra Navia celebrates a century of innovation for value. The company possesses a depth and breadth of knowledge that has been accumulated over 100 years, in 111 countries and with over 1,000 unique customers.

### Contact Information:

Indra  
Avda. De Bruselas, 35, 28108 Alcobendas, Madrid, Spain  
+34 91 62 71 958  
eosmont@indra.es  
indracompany.com

## EXHIBITOR



Easat Radar Systems designs & manufactures cost-effective, compact, and modern air traffic radar/surveillance systems including PSR, MSSR Mode-S, SMR, ADS-B, and MLAT for installation at fixed-sites. Transportable versions of our MSSR and/or PSR radar systems are ideal solutions to fill radar coverage gaps, as emergency backups, or to provide temporary coverage. We supply to civil or military clients as sub-systems or complete turnkey systems including towers, equipment rooms and all associated civil works. Worldwide customers include ECAA (Eritrea), IACM (Mozambique), FAA (USA), NATS (UK), Kazakhstan CAA, PANSA (Poland), KOCA (South Korea), AENA (Spain), Indonesian Air Force, and Lithuania, among others.

### Contact Information:

James Gardiner  
Easat Radar Systems Ltd, United Kingdom  
+358 400 610 502  
jgardiner@easat.com  
easat.com

## EXHIBITOR



Flightyield is the only fully outsourced revenue management service for air navigation service providers (ANSPs). Flightyield provides a single point of contact to automatically capture, calculate, rate, invoice and collect aeronautical and non-aeronautical fees from all airlines.

Implementing an effective revenue management system can deliver significant operational and financial benefits to ANSPs and their customers. We are looking forward to demonstrating how Flightyield could generate additional revenues for your organisation.

### Contact Information:

Frederic Durand  
+33 1 46 41 10 86  
frederic.durand@sita.aero  
flightyield.aero

## BADGES AND LANYARD SPONSOR



World leader in ATM, Thales offers integrated gate-to-gate solutions, from pre-flight to landing, ensuring airport safety, efficient traffic handling operations, data sharing on aircraft and seamless handover operations between territories.

We combine half a century's experience in development and deployment with an unrivalled worldwide installed base, advanced technology and ground-breaking innovations to deliver solutions that are continually adapted to the ever-changing aviation system's needs.

A key player in all major ATM modernisation initiatives, ICAO Aviation System Block Upgrades (ASBU), SESAR and NextGen, Thales focuses on international harmonization. Our product roadmaps are aligned with ICAO ASBU concepts, NextGen and SESAR.

### Contact Information:

Daymine Omar  
+33 1 79 61 11 66  
daymine.omarsalim@thalesgroup.com  
thalesgroup.com

# See You

in Madrid!



## World ATM Congress

Madrid, Spain  
IFEMA, Feria de Madrid  
[worldatmcongress.org](http://worldatmcongress.org)  
[#WorldATM](https://twitter.com/WorldATM)

### Future Dates:

**2017:** 7-9 March

**2018:** 6-8 March

**2019:** 12-14 March

