



Madrid

12–14 March  
2019

PROGRAMME  
**EUROPE FOR AVIATION**  
at World ATM Congress

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The background features three large, flowing, wavy lines in a light blue color. These lines originate from the left and right edges and curve towards the center, creating a sense of movement and depth. The lines are composed of many thin, parallel strokes that vary in density, giving the waves a textured, almost liquid appearance. The overall composition is clean and modern, with the text centered within the negative space created by the waves.

**STAND #849 AND  
THEATRE #1151**

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# EUROPE<sup>FOR</sup> AVIATION

The “Europe for Aviation” stand #849 and theatre #1151 will host a wide range of debates, presentations and guided walking tours, illustrating the collaboration in action between European aviation organisations working to implement the Single European Sky, namely **the European Commission, EUROCONTROL, SESAR Joint Undertaking, SESAR Deployment Manager, European Aviation Safety Agency, European Defence Agency, Innovation and Networks Executive Agency, and EUROCAE.**

In doing so, the organisations will show how between them they cover the full project management cycle from policy and funding to research and deployment.





# STAND EXHIBITS

Over the three-day event, each partner organisation will showcase several business areas.

## Aviation policy & regulations

The European Commission will present the EU's policy on the Single European Sky and highlight the benefits of collaboration among European aviation organisations as part of Europe's Aviation Strategy.

## Network operations

EUROCONTROL's experts will brief visitors about the measures which the Network Manager (NM) is putting in place to address the short-term capacity challenges and how NM is working together with air navigation service providers to prepare for summer 2019 traffic. They will also explain how NM is helping deliver the digital transformation of ATM through increased interoperability with operational stakeholders.

## SESAR research

SESAR experts from the SESAR Joint Undertaking and its co-founding member, EUROCONTROL, will showcase a wide range of SESAR solutions which are being delivered across Europe, and how these can help optimise capacity and performance of the aviation network. Visitors will also have the opportunity to find out more about SESAR-enabled ATM by trying out a virtual experience and taking part in the SESAR walking tours across the SESAR partners' stands.



## SESAR deployment

SESAR Deployment Manager experts will brief visitors on how industry-led coordinated and synchronised deployment of ATM modernisation projects in Europe is delivering performance benefits for passengers today and tomorrow. During the SESAR walking tours, concrete examples already in operation at airports, air navigation service providers and airlines, will be showcased.

## Civil-Military cooperation

EUROCONTROL experts will highlight the importance of collaboration between civil and military aviation players. They will brief visitors on a wide range of solutions for improved flight efficiency, airspace capacity and military mission effectiveness aimed at enhancing the implementation of flexible use of airspace, optimising CNS interoperability and rationalising infrastructure at reduced costs, within a secure ATM environment.

## Infrastructure funding

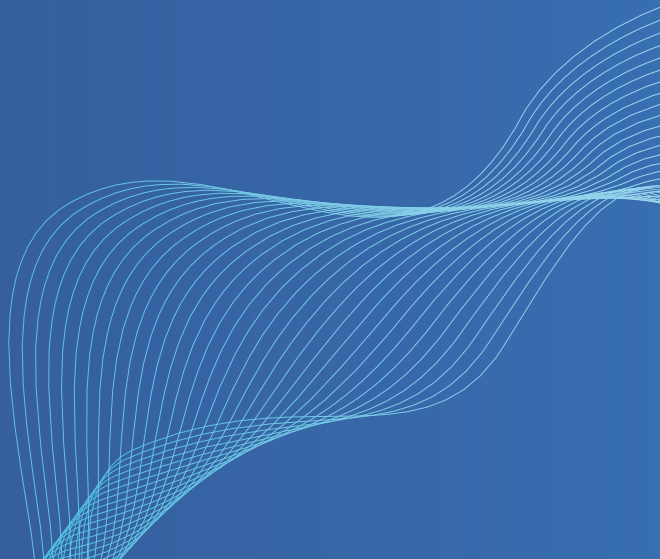
As the focal point for ATM/SESAR funding through the European Union, INEA will be showcasing the contribution made so far to the Single European Sky and the SESAR deployment through success stories funded under the Connecting Europe Facility (CEF). Visitors can find out more about INEA's role and the CEF programme.

## Military aviation

European Defence Agency experts will shed light on the military take regarding the key challenges facing European air traffic management and provide information on the latest developments for the military community in the field of drones, cybersecurity and SESAR.

## Standardisation

As the European leader in the development of worldwide recognised industry standards for aviation, EUROCAE will be there to brief visitors on the latest standardisation developments and how EUROCAE works together with industry and institutions, in Europe and beyond, to contribute to global interoperability.



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## **OVERVIEW OF THE THEATRE PROGRAMME**





## Tuesday, 12 March 2019

- 10:30 – 11:30** Drones technical session (followed by SESAR walking tour 3)
- 11:45 – 13:25** Data Link Services Recovery Plan - implementation status and next steps
- 13:25 – 13:45** 3SA-SDB initiative: towards collaborative governance of the digital backbone for the Single European Sky
- 14:00 – 15:05** **Official opening with discussion on the future of the Single European Sky**
- 15:15 – 16:15** Capacity crunch: what are we doing for 2019 summer traffic?
- 16:30 – 17:20** Single European Sky Awards ceremony
- 17:20 – 18:30** Networking reception

## Wednesday, 13 March 2019

- 10:00 – 11:30** Towards global interoperability

- 11:45 – 13:15** U-space developments – state of play (followed by SESAR walking tour 11)
- 13:30 – 14:15** Civil and military collaboration
- 14:30 – 15:30** Communications, navigation and surveillance (CNS) evolution and strategy
- 15:45 – 16:30** Cybersecurity: Time for concrete actions, together
- 16:45 – 17:30** SESAR is delivering!

## Thursday, 14 March 2019

- 10:00 – 10:45** Standardisation in support of the Single European Sky
- 11:00 – 11:30** Visualisation of ATM performance across Europe: the aviation performance interactive dashboard
- 11:45 – 12:30** Diversity and inclusion: from policy to practice in European aviation



# DAY 1

**TUESDAY**, 12 MARCH 2019

# SESAR WALKING TOURS DAY 1



**Meeting point:** SESAR registration desk - Europe for Aviation stand #849

**Tour 1 10:00 – 12:00**

Controller tools and team organisation for separation management (PJ10 PROSA)

**Tour 2 10:15 – 12:15**

Increasing capacity through new ATC concepts

**Tour 3 11:15 – 13:15**

Ensuring the safe and secure integration of drones (U-space R&D)

**Tour 4 11:30 – 14:00**

Virtual technologies

**Tour 5 15:15 – 17:15**

Optimising the performance of air traffic

**Tour 6 15:00 – 17:00**

Free route and the human-machine interface



# EUROPE FOR AVIATION THEATRE SESSIONS

**Where:** Europe for Aviation theatre #1151

## Drones technical session

(followed by SESAR walking tour on U-space)

### 10:30 – 11:30

Drones are the newest “birds flying in the air”. Enough has been written about the economic benefits drones can bring in future. However, do we know enough about how to integrate them safely in the airspace? What will be the overall concept of operation and how will it interact with manned aviation? What kind of standards do we need to operate drones of all sizes in a consistent manner in future ?

Do we have enough understanding about the applications the drones will interface with and whether they can work with those interfaces in an inter-operable way? What kind of research do we need to undertake to explore challenges and opportunities presented by drones?

### 10:30 -10:40 *Setting the scene*

Paul Bosman, Head of Aviation Cooperation and Strategies, EUROCONTROL

### 10:40 -10:50 *Overview of relevant results to date*

Robin Garrity, ATM Expert, SESAR Joint Undertaking

### 10:50 -11:00 *Overview of relevant results to date*

Juan Ignacio del Valle, Project Officer  
UAS Programmes, European Defence Agency

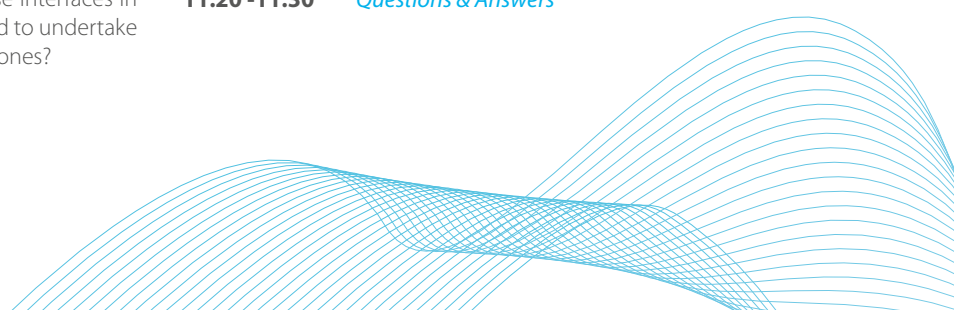
### 11:00 – 11:10 *EUROCAE WG-105 achievements & current and future activities*

Christian Schleifer, Secretary General, EUROCAE

### 11:10 - 11:20 *CORUS, one concept for Europe*

Andrew Hately, CORUS Technical Coordinator,  
EUROCONTROL

### 11:20 -11:30 *Questions & Answers*



# Data Link Services Recovery Plan

implementation status and next steps

## 11:45 – 13:25

This session showcases the latest developments in Data Link Services (DLS) implementation in Europe. Experts from the SESAR Deployment Manager (SDM), mandated by the European Commission as DLS Implementation Project Manager, will update you on the DLS Recovery Plan. As a follow-up, experts from EASA, EUROCONTROL, EUROCAE and EDA will showcase their regulatory, performance, technical standardisation and military contributions.

### 11:45 - 11:55 *Introduction and scene setting*

Nicolas Warinsko, General Manager,  
SESAR Deployment Manager

### 11:55 - 12:15 *DLS Recovery Plan implementation – status and next steps*

Davide Corinaldesi, DLS implementation  
Programme Manager, SESAR Deployment  
Manager

### 12:15 - 12:30 *Datalink Regulatory updates*

Bryan Jolly, ATM/ANS Senior Expert, EASA

### 12:30 - 12:45 *Monitoring the Datalink Performances*

Nikos Fistas, Senior COM Expert, EUROCONTROL

### 12:45 - 12:55 *Data Link Services*

Anna von Groote, Director Technical Programme,  
EUROCAE

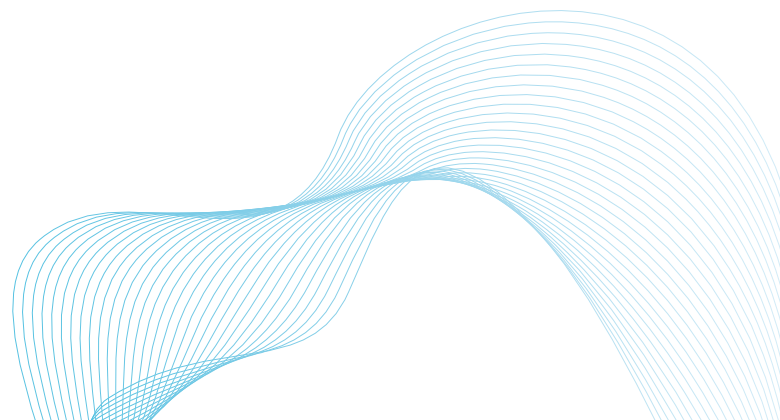
### 12:55 - 13:05 *DLS Military view*

Denis Bouvier, SES Policy Project Officer, European  
Defence Agency

### 13:05 - 13:20 *Questions & answers*

### 13:20 - 13:25 *Closing remarks*

Mariagrazia La Piscopia, Head of Strategy Technical  
and Operations, SESAR Deployment Manager



## 3SA-SDB initiative: towards collaborative governance of the digital backbone for the Single European Sky

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13:25 – 13:45

In this session, you will be introduced to the main concept of SES Digital Backbone (SDB). The SES Digital Backbone initiative aims to underpin the essential data exchange infrastructure by creating an over-arching governance framework, the SES Shared Services Alliance (3SA), for sustained operations of the components deployed by the wide range of related SESAR implementation projects. Recently, the A6 Alliance of ANSPs and EUROCONTROL have elaborated and published a White Paper on the 3SA-SDB and invite operational stakeholders to join this open to all initiative.

### *Introduction & scene setting*

Freek De Witte, Head of Stakeholder Relations,  
SESAR Deployment Manager

### *SES Digital Backbone initiative*

Marcel Sobottka, Head of Funding & Deployment Unit,  
DFS representing A6 Alliance of ANSPs

Paul Bosman, Head of Aviation Cooperation and  
Strategies, EUROCONTROL

### *Questions & answers*

### *Close-out*

Freek De Witte, Head of Stakeholder Relations,  
SESAR Deployment Manager



# OFFICIAL OPENING OF STAND

**Where:** Europe for Aviation theatre #1151



# EUROPE FOR AVIATION

**14:00 – 15:05** *Official opening in the presence of:*

**Henrik Hololei**, Director General, DG MOVE, European Commission

**Eamonn Brennan**, Director General, EUROCONTROL

**Florian Guillermet**, Executive Director, SESAR Joint Undertaking

**Nicolas Warinsko**, General Manager, SESAR Deployment Manager

**Jorge Domecq**, Chief Executive, European Defence Agency

**Nathalie Dejea**, Head of ATM/ANS and Aerodromes, European Aviation Safety Agency

**Andreas Boschen**, Head of CEF Department, Innovation and Networks Executive Agency

**Christian Schleifer**, Secretary General, EUROCAE

**Christine Berg**, Head of Single European Sky Unit, DG MOVE, European Commission

**Master of Ceremony:** Filip Cornelis, Director Aviation, DG MOVE, European Commission

## Capacity crunch: what are we doing for 2019 summer traffic?

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### 15:15 – 16:15

The EUROCONTROL Network Manager (NM) is addressing together with the operational stakeholders, the capacity shortfalls identified for summer 2019 and beyond.

The re-conduction of the NM/4ACCs initiative, enlarged to almost all European ANSPs, will bring an optimum solution at network level to minimise the ATFM delay, mitigate the impact of structural airspace and staff shortage issues while ensuring a balanced approach to horizontal and vertical flight efficiency.

This briefing on capacity crunch will present the approach in details, with guest speakers from PANSO and DSNA, who have experienced the initiative last summer and are pro-active in addressing main topics of the EUROCONTROL NM Action Plan.

### 15:15 – 15:30 *Setting the scene*

Eamonn Brennan, Director General, EUROCONTROL

### 15:30 – 15:45 *EUROCONTROL NM's capacity measures*

Razvan Bucuroiu, Head of Network & Development Division, Network Management Directorate, EUROCONTROL

## Addressing capacity with our partners

### 15:45 – 15:55 *A closer look at the Polish ANSP*

Janusz Janiszewski, acting President of the Polish Air Navigation Services Agency (PANSO)

### 15:55 – 16:05 *A look at the work done by FABEC and NM*

Geoffroy Ville, Deputy Director of Operations, DSNA, France

### 16:05 – 16:15 *Questions & answers*



**17:20 – 18:30**   *Networking reception*  
*at the European for Aviation stand #849*



DAY 2

WEDNESDAY, 13 MARCH 2019

# SESAR WALKING TOURS DAY 2



**Meeting point:** SESAR registration desk - Europe for Aviation stand #849

**Tour 7 10:30 – 12:45**

On-time arrivals and departures

**Tour 8 10:15 – 12:30**

Enhanced network operations

**Tour 9 10:30 – 13:00**

Runway throughput

**Tour 10 13:30 – 15:30**

Keeping airport tarmac safe

**Tour 11 13:15 – 15:30**

Demonstrating U-space

**Tour 12 14:15 – 16:00**

Civil-military collaboration

**Tour 13 15:30 – 17:15**

SWIM - system wide information management

**Tour 14 16:30 – 18:30**

Security



# EUROPE FOR AVIATION THEATRE SESSIONS

**Where:** Europe for Aviation theatre #1151

## Towards global interoperability

**10:00 – 11:30**

As ATM systems around the world are modernised, it is essential that harmonisation and interoperability are secured to ensure efficient operations of airspace users and for the ultimate benefit of the travelling public.

This session will take stock of the progress being made and will discuss the key opportunities and challenges. It will be set in the context of the international dimension of the EU's aviation strategy.

It will highlight in particular the next update of ICAO's Global Air Navigation Plan in 2019, and discuss whether there is a shift in priorities and how this will be reflected in the new GANP. It will also consider the status of cooperation between different ATM modernisation initiatives, including that between the EU and US as reflected in the latest edition of the NextGen/SESAR State of Harmonisation document.

**10:00 – 10:10**

*Introduction and scene setting*

Filip Cornelis, Director Aviation, DG MOVE,  
European Commission

**10:10 – 11:25**

*Panel: Harmonisation & collaboration between  
global ATM modernisation programmes*

### **Moderators**

David Batchelor, Head of International Affairs,  
SESAR Joint Undertaking

Marita Lintener, Senior International Relations  
Officer, SESAR Deployment Manager

### **Speakers**

Elkhan Nahmadov, Deputy Director, Europe and  
North Atlantic, ICAO

Ho Wei Sean, Deputy Director, Technology and  
Programmes, CAA Singapore

Steve Bradford, Chief Scientist, Architecture &  
NextGEN Development, FAA

Christian Schleifer, Secretary General, EUROCAE

Giancarlo Buono, Director Safety and Flight  
Operations, IATA

**11:25 -11:30**

*Closing remarks*

Filip Cornelis, Director Aviation, DG MOVE,  
European Commission



## U-space developments – state of play

Followed by U-space demo tour

**11:45 – 13:15**

Drone services can reduce costs only if operations can become more automated, more sophisticated and can grow in numbers. Such drone operations need U-space services to be safe and performant. As drones will fly near people and buildings, the society expects more than safety. Drones should not intrude in the private domain and should minimise visual or sonic pollution. That is why the U-space must go beyond traditional aviation issues and integrate the urban dimension of aerial mobility. Eventually, manned and unmanned traffic should be safely integrated. With drone operations, any point in the city could become “an airport” and the U-space should give fair and safe access to airspace and maintain societal support for those operations.

In this session, speakers will present the activities European institutions are undertaking related to delivery of U-space from legislative, regulatory, technical and research perspectives. Presentation of selected examples of ongoing U-space projects will provide a practical view of what is happening within the European U-space Demonstration Network.

### European institutional view

**11:45 – 12:00**    *What is the EU doing to deliver the U-space?*

Joachim Lücking, Head of Aviation Safety Unit,  
European Commission

**12:00 – 12:10**    *SESAR and demonstrating U-space*

Ludovic Legros, U-space Project Manager,  
SESAR Joint Undertaking

**12:10 – 12:20**    *EU U-space Demonstration Network*

Paul Bosman, Head of Aviation Cooperation  
& Strategies, EUROCONTROL

**12:20 – 12:30**    *Questions & answers*

## What is happening out there? Examples from the EU U-space Demonstration Network

**12:30 – 12:40**    *PODIUM*

Peter Alty, Project Leader, EUROCONTROL

**12:40 – 12:50**    *Drone activities in Gulf of Finland*

Nikama Pasi, Senior Vice President, ANS Finland

**12:50 – 13:00**    *Drones for maritime surveillance activities*

Helena Ramon-Jarraud, Head of Unit Maritime  
Surveillance , European Maritime Safety  
Agency (EMSA)

**13:00 – 13:15**    *Questions & answers*

## Panel debate on civil-military collaboration

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**13:30 – 14:15**

The discussions will focus on the civil-military vision and challenges as well as ideas to overcome those challenges.

### Welcoming, scene setting and moderation

**Christophe Vivier**, Head of Single European Sky Unit,  
European Defence Agency

## Stakeholder view: vision, challenges and way ahead for civil- military collaboration

### Speakers

Bryan Jolly, ATM/ANS Senior Expert, European Aviation Safety Agency

Michael Steinfurth, Head of Civil-Military Cooperation Division, EUROCONTROL

Benoit Fonck, Chief Development & Delivery, SESAR Joint Undertaking

Anna von Groote, Director Technical Programme, EUROCAE

Mariagrazia La Piscopia, Head of Strategy, Technical and Operations, SESAR Deployment Manager

Razvan Bucuroiu, Head of Network & Development Division, Network Management Directorate, EUROCONTROL

José Javier Chueca Ibáñez, Air Force Lieutenant Colonel, Spanish Ministry of Defence

### Conclusions

Gaelle Michelier, Deputy Head of Unit, Single European Sky, DG MOVE, European Commission

Christophe Vivier, Head of Single European Sky Unit, European Defence Agency

# Communication, Navigation and Surveillance (CNS) evolution and strategy

14:30 – 15:30

Communication, Navigation and Surveillance remain the corner stones for any future development in ATM and U-space (Unmanned Space).

Although the evolution of the C, N and S infrastructures have been widely addressed in international and European strategic documents, it used to be mostly considered separately for each domain whereas the interdependencies and interconnections between CNS current and future infrastructures require a more global approach.

Indeed, since the introduction of GNSS in multiple areas of CNS and the development of performance based concepts, the traditional C-N-S approach per domain is becoming difficult to maintain. As a response, the SESAR programme developed the CNS integrated concept.

The aim is to address the challenges of CNS integration but also to extract opportunities for the ATM system from this integration. This session is articulated around the Integrated CNS, considering the C, N and S domains as one.

**14:30 – 14:40** *Integrated CNS, CNS roadmap and Performance-Based CNS (including a follow up from ICAO ANC 13)*

Emilien Robert, SESAR iCNS Research, EUROCONTROL

**14:40 – 14:50** *CNS update in the EATM Master Plan*

Paul Dunkley, Programme Manager CNS, SESAR Joint Undertaking

**14:50 – 15:00** *Outcomes of the EUROCONTROL CNS Symposium*

Pascal Barret, Senior Navigation Expert, EUROCONTROL

**15:00 – 15:10** *Spectrum strategy update*

Jacky Pouzet, Head of Communication and Frequency Coordination, EUROCONTROL

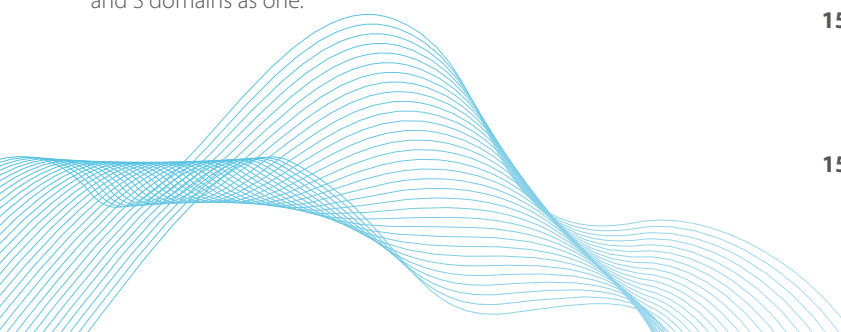
**15:10 – 15:15** *Civil-military CNS interoperability*

Michael Steinfurth, Head of Civil-Military Cooperation Division, EUROCONTROL

**15:15 – 15:20** *Military CNS perspective*

Sven Rensmeyer, Project Officer SESAR Development, European Defence Agency

**15:20 – 15:30** *Questions & answers*



## Cybersecurity - time for concrete actions, together

### 15:45 – 16:30

In this session, our experts will present the concrete actions which are being taken to improve the cyber resilience of the European aviation network. More specifically, you will learn more about:

- relevant standardisation activities and how consensus-driven standards can support industrial initiatives and how they are used in a regulatory context;
- the exercises on cyber defence which the European Defence Agency organises in partnership with its Member States, how these are structured and what their outcomes are;
- how the SESAR Deployment Manager develops and deploys a common framework for providing interoperable digital certificates for aviation information exchanges as required in the PCP family 5.1.4;
- how EUROCONTROL is raising awareness about the topic and providing a large range of cyber services.

### 15:45 – 15:55 *EUROCAE WG-72 achievements & current and future activities*

Anna von Groote, Director Technical Programme, EUROCAE

### 15:55 – 16:05 *Cyber defence exercises: Facing reality in a controlled environment*

Hannes Alparslan, Project Officer Aviation Cyber Security, European Defence Agency

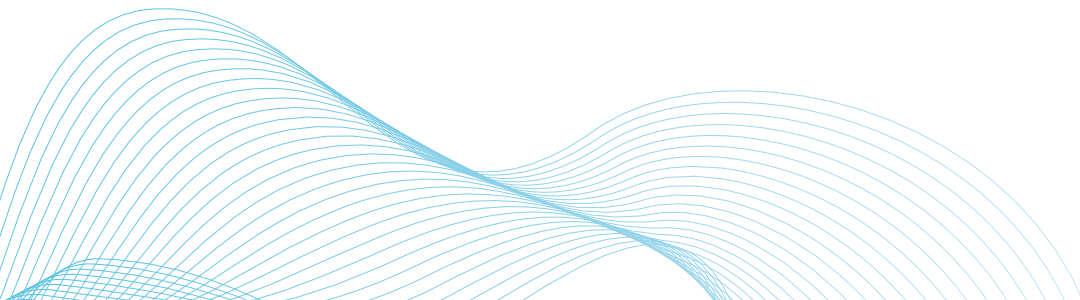
### 16:05 – 16:15 *SWIM Common PKI: deploying cybersecurity solutions*

Magnus Molbaek, Airport Expert AF5, SESAR Deployment Manager

### 16:15 – 16:25 *Cyber services and concrete actions for the benefit of European aviation*

Patrick Mana, EATM-CERT Manager, EUROCONTROL

### 16:25 – 16:30 *Questions and Answers*



## SESAR is delivering !

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16:45 – 17:30

This interactive slot will bring clear insights on how SESAR is delivering ATM modernisation in Europe implemented by civil and military stakeholders and how co-funding by the European Commission is supporting this. Hear the latest update and ask questions to the top-level speakers from INEA, SDM, SJU and EDA.

### Speakers

Nicolas Warinsko, General Manager, SESAR  
Deployment Manager

Florian Guillermet, Executive Director, SESAR Joint  
Undertaking

Andreas Boschen, Head of Connecting Europe Facility  
Department, Innovation & Networks Executive Agency

Christophe Vivier, Head of Single European Sky Unit,  
European Defence Agency

16:30

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**NETWORKING  
RECEPTION**

*#849*



DAY 3

**THURSDAY**, 14 MARCH 2019



# SESAR WALKING TOURS DAY 3



**Meeting point:** SESAR registration desk - Europe for Aviation stand #849

**Tour 15**      **10:15 – 11:45**

Increasing capacity through new ATC concepts

**Tour 16**      **10:00 – 12:00**

Data communications



# EUROPE FOR AVIATION

## THEATRE SESSIONS

**Where:** Europe for Aviation theatre #1151

### Standardisation in support of Single European Sky

**10:00 – 10:45**

This session will review standardisation activities directly supporting the Single European Sky and analyse the effects and contribution of international standards in support to the deployment of innovative solutions, based on the example of Remote and Virtual Tower.

**10:00 – 10:05**

*Welcome and opening remarks*

Christian Schleifer, Secretary General, EUROCAE

**10:05 – 10:15**

*Remote Tower - current status of SESAR JU activities*

Jörn Jakobi, PJ.05 Coordinator, DLR

**10:15 – 10:25**

*Standardisation of Remote Tower – the work of EUROCAE WG-100*

Jörn Jakobi, WG-100 Chairperson, DLR

**10:25 – 10:35**

*Examples of deployment – challenges and success stories*

Peter Gridling, Domain Sales Expert Remote TWR, Frequentis

**10:35 – 10:40**

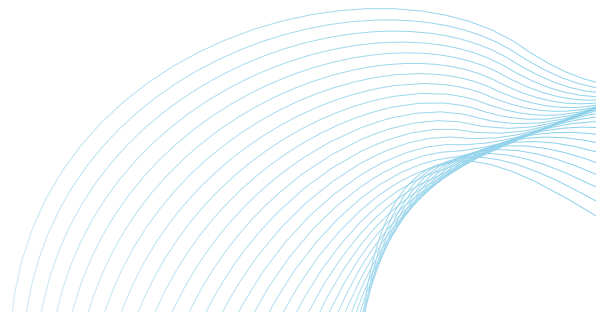
*Remote Tower: a potential opportunity for the military?*

Denis Bouvier, Project Officer Single European Sky Policy, European Defence Agency

**10:40 – 10:45**

*Q&A and closing*

Christian Schleifer, Secretary General, EUROCAE



## Visualisation of ATM performance across Europe: the aviation performance interactive dashboard

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11:00 – 11:30

This briefing will demonstrate the power offered by interactive dashboards to navigate within a large dataset. Such tools allow users to have a rich experience in querying the data and finding responses to his/her questions. The session will be organised around two main interactive dashboards which have been developed by EUROCONTROL and are currently used by a large number of stakeholders.

### Speakers

Denis Huet, Head of Economy Performance Review Unit, EUROCONTROL

## Diversity and inclusion: from policy to practice in European aviation

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11:45 – 12:30

Three prominent leaders will share their own experiences and present how their European organisations implement initiatives to support and develop the diversity and inclusion for European aviation. A strong demonstration of the partnerships, initiatives, the alignment of thoughts and policies.

### Moderator

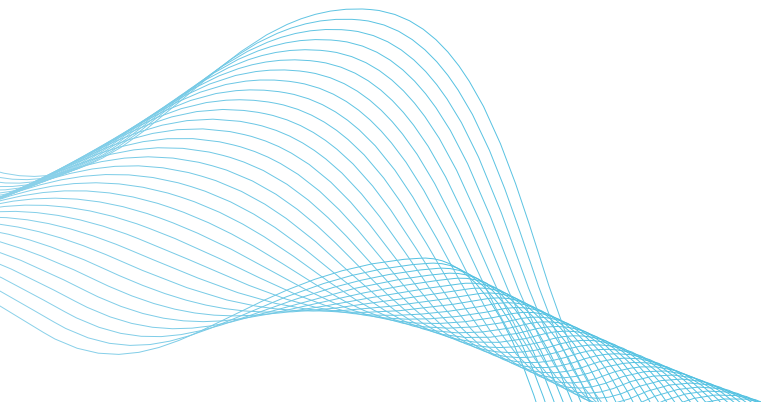
Milena Bowman, Founder of the Diversity and Inclusion Think-tank, EUROCONTROL Maastricht Upper Area Control Centre

### Speakers

Sabrina Depicker, Head of Human Resources Services, EUROCONTROL

Mariagrazia La Piscopia, Head of Strategy, Technical and Operations, SESAR Deployment Manager

Christine Berg, Head of Single European Sky Unit, DG MOVE, European Commission



EUROPE<sub>FOR</sub>AVIATION





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