

# World ATM Congress 2019

SESAR  
walking  
tours



SESAR



**STAND  
# 849**



# SESAR walking tours









## SESAR: from innovation to deployment

Get a taste of the transformation that is underway in air traffic management (ATM) thanks to SESAR members and stakeholders through a series of events and walking tours at the World ATM Congress 2019 in Madrid (12-14 March). The walking tours will give visitors an opportunity to meet with experts from the SESAR community and see first-hand the wide variety of solutions that are being delivered and deployed across Europe.









\* Tours will start from the Europe For Aviation stand(#849) – SESAR Walking Tours registration desk.



# DAY 1: TUESDAY, 12 MARCH

	TOUR 1	Controller tools and team organisation for separation management (PJ10 PROSA)	10:00 – 12:00
	TOUR 2	Increasing capacity through new ATC concepts	10:15 – 12:15
	TOUR 3	Ensuring the safe and secure integration of drones (U-space R&D)	11:15 – 13:15
	TOUR 4	Virtual technologies	11:30 – 14:00
	TOUR 5	Optimising the performance of air traffic	15:15 – 17:15
	TOUR 6	Free route and the human-machine interface	15:00 – 17:00

# DAY 2: WEDNESDAY, 13 MARCH

	TOUR 7	On-time arrivals and departures	10:30 – 12:45
	TOUR 8	Enhanced network operations	10:15 – 12:30
	TOUR 9	Runway throughput	10:30 – 13:00
	TOUR 10	Keeping airport operations safe	13:30 – 15:30
	TOUR 11	Demonstrating U-space	13:15 – 15:30
	TOUR 12	Civil and military collaboration	14:15 – 16:00
	TOUR 13	System-wide information management (SWIM)	15:30 – 17:15
	TOUR 14	Security	16:30 – 18:00

# DAY 3: THURSDAY, 14 MARCH

	TOUR 15	Increasing capacity through new ATC concepts	10:15 – 11:45
	TOUR 16	Data communications	10:00 – 12:00

# DAY 1: TUESDAY, 12 MARCH 2019

## TOUR 1: Controller tools and team organisation for separation management (PJ10 PROSA)

Automation is a key enabler for managing the growing and increasingly complex air traffic across Europe. With automated tools dealing with routine tasks, air traffic controllers can concentrate on those situations where human intervention is most critical. This is where PROSA, the SESAR 2020 project, comes in. It aims to not only improve current conflict detection tools, but to also develop new tools providing resolution advisories and flight trajectory monitoring. The project also addresses new ways of working together through changing the traditional setup to multi-planner setup, collaborative control and generic controller validations. Project partners are also looking at the integration of remotely-piloted aircraft systems in controlled airspace.



TOUR GUIDE: Jörg Bergner, DFS

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER	
10 :00 – 12 :00	10:00	Europe For Aviation (849)	CHECK IN		
	10:15	Europe For Aviation (849) (SESAR JU pod)	Introduction	Jörg Bergner, DFS	
	10:30	DSNA (480)	Improved separation management	Daniel Cario, DSNA & John Godsell, NATS	
	10:45	Skyguide (1220)	Controller team organisation (MSP, SPO)	Pascal Latron, Skyguide	
	11:00	AT-One/DLR (931)	Flight-centric air traffic control (ATC)	Vilmar Mollwitz, DLR	
	11:15	NATS (826)	Collaborative control, generic controller validations	John Godsell, NATS	
	11:30	ENAV (927)	Remotely-piloted aircraft systems (RPAS) integration in IFR traffic	Giovanni Riccardi, ENAV	
	11:45	DFS (834)	Wrap-up and further discussions	Jörg Bergner, DFS	
	12:00	END OF TOUR			


# DAY 1: TUESDAY, 12 MARCH 2019

## TOUR 2: Increasing capacity through new air traffic control (ATC) concepts

As traffic grows, so does the need to investigate ways to better manage and optimise airspace and airport capacity. This tour will present some of the procedures and technologies undergoing research and development, ranging from enhanced approach procedures enabled by satellite technologies to flight-centric operations where controllers are assigned to aircraft rather than specific sectors of airspace. The tour will also look at number of toolkits, such as a SWIM-based solution (SINAPS) to support dynamic airspace configuration and a tool to facilitate advanced tactical flight planning.



**TOUR GUIDE: Olivia Nunez, SESAR JU**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
 10:15 – 12:15	10:15	Europe For Aviation (849)	CHECK IN	
	10:30	Europe for Aviation (849) <i>(SESAR JU pod)</i>	Introduction	Olivia Nunez, SESAR JU
	10:45	ENAIRES-INECO (844-845)	Enhanced arrival procedures	Pilar Calzón, INECO
	11:00	HungaroControl (335)	ATM system upgrade	Gabor Szabo, HungaroControl
	11:15	HungaroControl (335)	Flight-centric ATM (operations)	Dóra Balló, HungaroControl
	11:30	Frequentis (526)	Flight-centric ATM (technology)	Maarten Van der Lee, Frequentis
	11:45	DSNA (480)	SINAPS to support dynamic airspace configuration for flow management position (FMP) and supervisors	Judicael Bedouet & Isabelle Luxembourg, DSNA
	12:00	COOPANS (957)	ADAPT - Advanced Dynamic ATC Planning Tool	Kristijan Matulic, COOPANS
	12:15	END OF TOUR		


# DAY 1: TUESDAY, 12 MARCH 2019

## TOUR 3: Ensuring the safe and secure integration of drones (U-space R&D)

Research and development (R&D) is underway in SESAR to ensure the safe and secure integration of drones across Europe, within the framework of U-space, an initiative by the European Commission. This tour will present the work of some of SESAR's R&D projects addressing the concept of operations for drone operations, critical communications, surveillance and tracking, and information management to aircraft systems and ground-based technologies. The tour will also look at the initial results from a large-scale demonstration on the maturity of these U-space services and technologies.



**TOUR GUIDE: Ludovic Legros, SESAR JU**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER	
	11:15 – 13:15	Europe For Aviation (849)	<b>CHECK IN*</b>  <i>*For those who wish to attend the Drones technical session in the theatre, please check in at 10:15</i>		
	11:30	Europe For Aviation (849) <i>(SESAR JU pod)</i>	Introduction	Ludovic Legros, SESAR JU	
	11:45	Europe For Aviation (849) <i>(EUROCONTROL pod)</i>	CORUS - Concept of operations for European UTM systems	Andrew Hately, EUROCONTROL	
	12:00	Europe For Aviation (849) <i>(SESAR JU pod)</i>	DroC2om – Drone critical communications	Troels B. Sørensen, Aalborg University	
	12:15	ENAIRe-CRIDA (844)	IMPETUS - Drone Information Management Showcase Services in U-space	Marta Sánchez Cidoncha, ENAIRe	
	12:30	ENAIRe - INECO (844-845)	TERRA - Technological European research for RPAS in ATM	Victor Gordo, INECO	
	12:45	DSNA (480)	An overview of DSNA's U-space activities	Antoine Martin / Christian Aveneau, DSNA	
	13:00	IDS (883)	DREAMS - Drone European AIM study	Massimo Antonini, IDS Ingegneria Dei Sistemi	
	13:15	<b>END OF TOUR</b>			


# DAY 1: TUESDAY, 12 MARCH 2019

## TOUR 4: Virtual technologies

SESAR R&D has led to the implementation of single remote air traffic control service provision for several small and medium-sized airports in Europe. The tour will present the next phase of research, which is investigating the feasibility of delivering remote air traffic services to multiple airports. The tour will also present virtual centres, which decouples data services from physical air traffic service units (ATSUs), and some of the technologies which are being introduced into the human machine interface (HMI) of the controller working position (CWP) to support controllers in dealing with increased traffic and complex operations.



**TOUR GUIDE: Robin Garrity, SESAR JU**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
 11:30 – 14:00	11:30	<b>Europe For Aviation (849)</b>	<b>CHECK IN</b>	
	11:45	<b>Europe For Aviation (849)</b> ( <i>SESAR JU pod</i> )	Introduction	Robin Garrity, SESAR JU
	12:00	<b>ENAIRES (844)</b>	iFOCUCS - Proyecto 2017_050_AF3: Controller CWP upgrade	José Recio Sánchez, ENAIRES
	12:15	<b>ENAV (927)</b>	Remote tower services: the ENAV experience	Daniele Teotino & Patrizia Criscuolo, ENAV
	12:30	<b>Saab AB (305)</b>	Multiple remote tower module & RTC with flexible allocation (SESAR PJ.05 Remote towers)	Niclas Gustavsson, SAAB
	12:45	<b>Thales (515)</b>	Virtual centres	Richard Beaulieu, Thales
	13:00	<b>Frequentis (526)</b>	SESAR PJ.05 - Remote towers	Peter Gridling, Frequentis
	13:15	<b>Frequentis (526)</b>	SESAR PJ.16 - CWP HMI	Maarten van der Lee, Frequentis
	13:30	<b>COOPANS (957)</b>	SESAR PJ.16-03 - Work station, service interface definition & virtual centre concept	Erik Langevi, COOPANS
	13:45	<b>AT-One/DLR (931)</b>	Multiple remote tower module & RTC with flexible allocation of aerodromes to MRTMs (SESAR PJ.05 Remote towers)	Jörn Jakobi, DLR
14:00	<b>END OF TOUR</b>			


# DAY 1: TUESDAY, 12 MARCH 2019

## TOUR 5: Optimising the performance of air traffic

The Single Europe Sky and SESAR aim to optimise the performance of air traffic management in Europe, in terms of safety, capacity, cost and operational efficiency, and the environment. The tour will present a number of solutions in the pipeline aimed at optimising airspace and airport capacity, such as tools for improving flight planning and trajectory information sharing, demand and capacity balancing techniques, enhanced approach procedures using satellite-based technologies, and a prototype for airport post-operations analysis. The tour will also take a look at the implementation in Bulgaria of a traffic complexity assessment tool.



**TOUR GUIDE: Ralph Schwarzendahl, SESAR DM**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
 15:15 – 17:15	15:15	<b>Europe For Aviation (849)</b>	<b>CHECK IN</b>	
	15:30	<b>Europe For Aviation (849)</b> ( <i>SESAR DM pod</i> )	Introduction	Ralph Schwarzendahl, SESAR DM
	15:45	<b>Air Navigation Services of the Czech Republic (885)</b>	Traffic complexity tools	Pavel Mrna, ANS CR
	16:00	<b>Europe For Aviation (849)</b> ( <i>EUROCONTROL pod</i> )	Improved parallel approaches with PBN	Karim Zeghal, EUROCONTROL
	16:15	<b>BULATSA/DANUBE FAB (270)</b>	tCAT implementation in Sofia ACC	Ivan Hassamski, BULATSA
	16:30	<b>ENAIRES-CRIDA (844)</b>	Demand-capacity balancing	Patricia López de Frutos, ENAIRES
	16:45	<b>ENAIRES-CRIDA (844)</b>	Airport post operations analysis prototype	Alan Groskreutz, ENAIRES
	17:00	<b>ENAV (927)</b>	First European Implementation of PInS Procedures to Support Medical Emergency Operations	Gennaro Graziano, ENAV
	17:15	<b>END OF TOUR</b>		



# DAY 1: TUESDAY, 12 MARCH 2019

## TOUR 6: Free route and the human-machine interface

Currently, aircraft fly an average of 20 km further than the most direct route between two points. All that changes with free route, which allows airlines to fly the most optimised route in terms of flight and fuel efficiency. The tour will hear from stakeholders that have deployed the solution in Italy as well as in northern Europe – an expansive piece of airspace that stretches from the eastern boundary of the North Atlantic to the western boundary of Russian airspace. The tour will also be an opportunity for visitors to hear about the systems that are evolving in the operations room in support of free route, and technologies such as automatic speech recognition that are improving the human machine interface (HMI) of the controller working position (CWP).



### TOUR GUIDE: Roman Kushnarov, EUROCONTROL

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
 15:00 – 17:00	15:00	Europe For Aviation (849)	CHECK IN	
	15:15	Europe For Aviation (849) (EUROCONTROL pod)	Introduction	Roman Kushnarov, EUROCONTROL
	15:30	NATS (826)	Controller working position/human machine interface – (CWP/HMI)	Sam Nagahawatte, NATS
	15:45	EANS (1169)	Borealis free route implementation with FINEST programme sub-project	Kristo Vallimäe, Borealis
	16:00	Europe For Aviation (849) (SESAR DM pod)	Implementation of free route and FAB CE cross-border free route airspace study and implementation	Matej Eljon, FAB CE
	16:15	ENAIRES-CRIDA (844-845)	Free route	Fernando Ruiz-Artaza, ENAIRES & Raquel García Lasheras CRIDA
	16:30	ENAV (927)	Free route implementation in Italy	Paolo Nasetti, ENAV
	16:45	ENAV (927)	4Flight implementation in Italy	Matteo Pace & Lorenzo Ghirardi, ENAV
	17:00	END OF TOUR		


# DAY 2: WEDNESDAY, 13 MARCH 2019

## TOUR 7: On-time arrivals and departures

Air traffic is increasing in Europe especially in the airspace approaching airports (i.e. terminal manoeuvring area - TMA). To meet the forecasted traffic growth, SESAR is developing and deploying a range of solutions to increase the capacity of TMAs in a safe, cost-efficient and environmentally sustainable manner. Solutions include embedding target time of arrivals (TTAs), integrating information from departure and arrival management systems, and methods to better integrate rotorcraft and general aviation traffic.



### TOUR GUIDE: Olivia Nunez, SESAR JU

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
 10:30 – 12:45	10:30	Europe For Aviation (849)	CHECK IN	
	10:45	Europe For Aviation (849) (SESAR JU pod)	Introduction	Olivia Nunez, SESAR JU
	11:00	Europe For Aviation (849) (SESAR JU pod)	Arrive-on-time programme - embedding target-times of arrival (TTAs)	Emmeline Kingsford, Heathrow
	11:15	NATS (826)	Enhanced arrivals and departures (EAD PJ.01)	Dinesh Gogna, NATS
	11:30	NATS (826)	Use of arrival & departure management information for traffic optimisation in the TMA	Sian Andrews, NATS
	11:45	Leonardo (890)	New Leonardo ATM tools	Gianluca Agresta, Leonardo
	12:00	AT-One/DLR (931)	Enhanced arrival & departures for enhanced rotorcraft operations in the TMA (EAD PJ.01)	Helmut Toeppen, DLR
	12:15	AT-One/NLR (931)	Interval management to simultaneously reduce environmental impact & increase capacity in high density TMAs	Ahmad Bakkar, NLR
	12:30	AT-One/DLR (931)	Assistant-based speech recognition & attention guidance for the CWP HMI (PJ.16-04)	Jürgen Rataj, DLR
	12:45	END OF TOUR		

# DAY 2: WEDNESDAY, 13 MARCH 2019

## TOUR 8: Enhanced network operations

This tour will present a number of ways in which SESAR partners are delivering enhanced network operations in Europe with a view to improving traffic flow and optimising capacity. These include performance-based navigation, advanced short-term ATFCM measures (STAMs), network collaborative management, as well as an overview of some of the key technologies supporting these concepts. The tour will also feature an overview of extended arrival management (E-AMAN) activities and trials in France, allowing visitors to also better understand how this solution will enable greater predictability of traffic through its deployment.



**TOUR GUIDE: Frank Ballerini, EUROCONTROL**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER	
 10:15 – 12:30	10:15	Europe for Aviation (849)	CHECK IN		
	10:30	Europe For Aviation (849) (SESAR JU pod)	Introduction	Frank Ballerini, EUROCONTROL	
	10:45	Europe For Aviation (849) (EUROCONTROL pod)	Optimised airspace user operations	Kris Delcourte, EUROCONTROL	
	11:00	ENAIRES-CRIDA (844)	Short-term ATFCM measures (STAM) implementation	Nicolas Suarez, ENAIRES	
	11:15	DSNA (480)	Extended arrival management (E-AMAN) Paris trials	Etienne Guerin, Marc Azoulay, DSNA	
	11:30	DSNA (480)	Xman deployment	Gérald Regniaud, DSNA	
	11:45	Europe for Aviation (849) (SESAR JU pod)	Extended collaborative advanced planning – N-CAP (Network-CAP)	Jérôme Dufosse, DSNA	
	12:00	Thales (515)	Air traffic flow management	Todd Donovan and Dominique Latgé, Thales	
	12:15	Indra (553)	ATM capacity (Including iACM, TTM, RKM, sectorless ATM)	Ana Castro, Indra	
	12:30	END OF TOUR			


# DAY 2: WEDNESDAY, 13 MARCH 2019

## TOUR 9: Runway throughput

Runway capacity is a limiting factor at many of the top 30 Europe's largest airports, especially during peak hours when demand cannot always be accommodated without inducing delay or increasing flying time. The tour will present some of the SESAR Solutions aimed at optimising runway throughput, as well as optimising surface operations and enabling access to airports irrespective of the weather. These solutions include guidance assistance tools for aircraft and vehicles on the airport surface, ground-based augmented systems (GBAS) and wake turbulence separation delivery tools. The tour will also hear about the successful deployment of time-based separation at Heathrow Airport and the latest from the Augmented Approaches to Land 2 demonstration project.



**TOUR GUIDE: Larry Johnsson, SESAR DM**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
 10:30 – 13:00	10:30	Europe For Aviation (849)	CHECK IN	
	10:45	Europe For Aviation (849) (SESAR DM pod)	Introduction	Larry Johnsson, SESAR DM
	11:00	Europe For Aviation (849) (EUROCONTROL pod)	Time-based separation (TBS)	Vincent Treve, EUROCONTROL
	11:15	Frequentis (526)	Enhanced guidance assistance to aircraft & vehicles on the airport surface combined with routing	Thomas Singer, Frequentis
	11:30	Europe For Aviation (849) (EUROCONTROL pod)	Wake turbulence separations optimisation	Vincent Treve, EUROCONTROL
	11:45	Honeywell (1231)	Augmented Approaches to Land 2	Jolana Dvorska, Honeywell & Olivier Baudson, Dassault
	12:00	Indra (553)	GBAS CAT III	Linda Lavik, Indra
	12:15	ENAIRES (844)	GBAS	Patricia Callejo, ENAIRES
	12:30	DSNA (480)	Deploying high-performing airport operations at CDG	Jérémie Bayle and Loïc de Rancourt, DSNA
	12:45	NATS (826)	Deployment of enhanced TBS at Heathrow	Andy Shand, NATS
	13:00	END OF TOUR		

# DAY 2: WEDNESDAY, 13 MARCH 2019

## TOUR 10: Keeping airport operations safe

Airport safety is top priority for SESAR R&D and deployment. Far from being a constraint, it is a factor of development. This tour will present the wide range of solutions that have been either delivered or that are in the pipeline. These range from systems to alert pilots of imminent runway collisions, tools to improve the situational awareness of vehicle drivers and other safety support tools for controllers and airport operators. The tour will also present examples of a runway safety net for airlines in Portugal. Together these solutions are mitigating the risks of runway incursions, runway excursions and more generally the risk of incidents and accidents involving aircraft in the airport environment.



**TOUR GUIDE: Robin Garrity, SESAR JU**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
<b>13:30</b> – <b>15:30</b>	<b>13:30</b>	<b>Europe For Aviation (849)</b>	<b>CHECK IN</b>	
	13:45	<b>Europe For Aviation (849)</b> ( <i>SESAR JU pod</i> )	Introduction	Robin Garrity, SESAR JU
	14:00	<b>DSNA (480)</b>	SESAR PJ.03b SAFE - Safer airports and flights for Europe	Nicolas Leon, DSNA
	14:15	<b>Honeywell (1231)</b>	Airport safety nets	Jolana Dvorska, Honeywell
	14:30	<b>PANSA (239)</b>	Runway condition code prediction	Jarosław Niewiński & Jacek Kopeć, PANSA
	14:45	<b>Europe For Aviation (849)</b> ( <i>SESAR DM pod</i> )	Runway overrun prevention system (ROPS) bundled application for TAP Portugal	Janite Parmanande, TAP Air Portugal
	15:00	<b>ENAV (927)</b>	Surface operation by RPAS	Giovanni Riccardi, ENAV
	15:15	<b>ENAIRE-INECO (844-845)</b>	Airborne spacing flight deck interval management	Jose Manuel Risquez & Mercedes Lopez, ENAIRE
	<b>15:30</b>	<b>END OF TOUR</b>		




# DAY 2: WEDNESDAY, 13 MARCH 2019

## TOUR 11: Demonstrating U-space

R&D is underway in SESAR to ensure the safe and secure integration of drones across Europe, within the framework of U-space, an initiative by the European Commission. In 2017/2018, several demonstrations got underway to show the readiness of U-space services to manage a broad range of drone operations and related services, and their interaction with manned aviation. Services range from parcel deliveries between two dense urban locations, medical emergencies and police interventions, to maritime search and rescue and forestry inspections. The tour will present the work of some of these demonstrations, as well as the underlying concept of operations and the technology platforms that stakeholders are putting in place in support of U-space.



**TOUR GUIDE: Ludovic Legros, SESAR JU**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
 13:15 – 15:30	13:15	Europe for Aviation (849)	CHECK IN	
	13:30	Europe For Aviation (849) (SESAR JU pod)	Introduction	Ludovic Legros, SESAR JU
	13:45	Europe For Aviation (849) (EUROCONTROL pod)	PODIUM - Providing operations of drones with initial UTM: U-space integrators role	Peter Alty, EUROCONTROL
	14:00	Unifly (1145)	CORUS, CLASS, SECOPS, PODIUM, VUTURA, SAFIR	Ellen Malfliet, Unifly
	14:15	ENAIRE (844)	DOMUS - Demonstration of multiple U-space suppliers	Daniel Garcia-Monteavaro Vizcaino, ENAIRE
	14:30	Frequentis (526)	GOF - Gulf of Finland U-space demonstration	Jan Ziegler, Frequentis
	14:45	Thales (515)	U-space - Thales EcoSystem UTM	Olivier Rea and Todd Donovan, Thales
	15:00	Thales (515)	Geofencing and geocaging – status of R&D	Pierre-Jérôme Clemenceau and Lionel Puntos, Thales
	15:15	ENAV (927)	DIODE - D-flight internet of drones environment	Stefano Giovannini, ENAV
	15:30	END OF TOUR		


# DAY 2: WEDNESDAY, 13 MARCH 2019

## TOUR 12: civil and military collaboration

Europe's armed forces operate more than 150,000 flights per year. To accommodate certain types of these flights the airspace is segregated sometimes at short notice. Given the growth of air traffic, SESAR is looking at systems and solutions that allow more flexible civil-military collaboration to maximise the use of the airspace. This tour will zoom in on some of these solutions that facilitate this collaboration, such as dynamic airspace configuration and a better integration of military flight plans and trajectory information into the civil air traffic management system from the military wing operations centre (WOC). The tour will also look at the central management of these plans by the Network Manager and their distribution to local air traffic control centres where these military flights are taking place.



**TOUR GUIDE: Vicente De Frutos Cristobal, EDA**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER	
 14:15 – 16:00	14:15	Europe For Aviation (849)	CHECK IN		
	14:30	Europe For Aviation (849) (EDA pod)	Introduction	Vicente De Frutos Cristobal, EDA	
	14:45	Europe For Aviation (849) (EUROCONTROL pod)	Advanced airspace management	Giuseppe Murgese, EUROCONTROL	
	15:00	NATMIG/SINTEF (1265)	Simulation of dynamic air space configuration at the ATCO working position	Erik G. Nilsson, NATMIG/SINTEF	
	15:15	Europe for Aviation (849) (EUROCONTROL pod)	Integrated management of the military airspace user demand through mission trajectory driven processes	Edgar Reuber, EUROCONTROL	
	15:30	PANSA (239)	Local ASM tool - a part of dynamic airspace configuration (DAC) process	Łukasz Godlewski & Jacek Wyrwich, PANSA	
	15:45	Thales (515)	Data flow management	Philippe Avezou & Jean-Pierre Faye, Thales	
	16:00	END OF TOUR			


# DAY 2: WEDNESDAY, 13 MARCH 2019

## TOUR 13: System-wide information management

Essentially the intranet of ATM, SWIM provides the means for the right information to be shared between the right stakeholders (ground-ground, air-ground) at the right time. SWIM is predominantly based on mainstream Internet Protocol (IP)-based technologies, while the underlying network connectivity is provided by secure internet connections and the Pan European Network System (PENS), the backbone of the European ATM network. This tour will showcase examples of data services that are being enabled by SWIM, such as for ATC planning, air-ground information sharing, digital integrated briefings and aeronautical information distribution, and how these are being deployed in Europe.



TOUR GUIDE: Freek De Witte, SESAR DM

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
 15:30 – 17:15	15:30	Europe For Aviation (849)	CHECK IN	
	15:45	Europe For Aviation (849) (SESAR DM pod)	Introduction	Freek De Witte, SESAR DM
	16:00	Frequentis (526)	Aeronautical digital map service	Hannes Brunner, Frequentis
	16:15	Frequentis (526)	Digital integrated briefing in support of air/ground communication validation exercises	John Fort, Frequentis
	16:30	Thales (515)	Information sharing between the ground and the aircraft	Xavier Jourdain, Thales
	16:45	Leonardo (890)	SWIM purple profile for air/ground advisory information	Dario Di Crescenzo, Leonardo
	17:00	ROMATSA/DANUBE FAB (270)	Stakeholders` contribution for the procurement and deployment of NewPENS	Mihai Spiridonescu, ROMATSA
	17:15	END OF TOUR		




# DAY 2: WEDNESDAY, 13 MARCH 2019

## TOUR 14: Security

Traditionally ATM has been a patchwork network of bespoke systems connected by an array of different interfaces, often using national or proprietary standards. In recent years, the introduction of internet protocol-based solutions enabled by SWIM, the level of interoperability within ATM has increased. However, this net-centric system-of-systems poses new challenges in terms of cyber resilience. This tour will present common policies and procedures for establishing trust frameworks, as well cyber-security applications that are being developed in relation to SWIM. The tour will also present R&D into security risks associated with GNSS interferences in air navigation systems, such as jamming and spoofing, as well as methods for mitigating them.



**TOUR GUIDE: Magnus Molbaek, SESAR DM**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
	16:30	Europe for Aviation (849)	CHECK IN	
	18:00	16:45	Europe For Aviation (849) (SESAR DM pod)	Introduction Magnus Molbaek, SESAR DM
	17:00	Europe For Aviation (849) (SESAR JU pod)	GNSS navigation threats management (GATEMAN)	Alberto de la Fuente, GMV
	17:15	Leonardo (890)	Cyber-security applications in ATM systems	Giuliano D'Auria, Leonardo
	17:30	ROMATSA/DANUBE FAB (270)	SWIM common PKI and policies and procedures for establishing a Trust framework	Florin Stoian, ROMATSA & Patrick Mana, EUROCONTROL
	17:45	BULATSA/DANUBE FAB (270)	Creating local security operation center	Daniela Vassileva, BULATSA
	18:00	END OF TOUR		

# DAY 3: THURSDAY, 14 MARCH 2019

## TOUR 15: Increasing capacity through new ATC concepts

To deliver more predictable air traffic, SESAR is investigating ways to ensure better synchronised ground-ground and air-ground information. The tour will hear from stakeholders on progress towards greater interoperability of ground control systems, as well as the integration of initial 4D trajectory information to improve not only flight predictability but also conflict avoidance. The tour will hear from stakeholders on their system upgrades as well how SESAR Solutions designed for commercial air traffic can also be adapted for use by rotorcraft and general aviation.



**TOUR GUIDE: Olivia Nunez, SESAR JU**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
10:15 – 11:45	10:15	Europe For Aviation (849)	CHECK IN	
	10:30	Europe For Aviation (849) <i>(SESAR JU pod)</i>	Introduction	Olivia Nunez, SESAR JU
	10:45	Indra (553)	Flight object interoperability air traffic control planned trajectory performance improvement	Hugo Salinas, Indra
	11:00	DSNA (480)	An ANSP perspective on using flight object interoperability	Paul Guerard, DSNA
	11:15	Airbus (1259)	Air-ground integrated 4D for in flight conflict avoidance	Philippe Masson & Mattia Nurisso, Airbus
	11:30	AT-One/DLR (931)	GRADE: demonstrating the ability of GA and rotorcraft to benefit from SESAR concepts	Helmut Toeppen, DLR
	12:00	END OF TOUR		


# DAY 3: THURSDAY, 14 MARCH 2019

## TOUR 16: Data communications

Communication systems on board, the most recent commercial satellite systems offer new capabilities to support airspace management communication needs. SESAR 1 successfully tested a secure satellite-based air traffic services datalink, using the Iris Precursor, which takes advantage of IP-based broadband to provide secure and high-bandwidth cockpit communications to exchange flight information and trajectory data with the ground. Complementary to this and as an element of the future communication infrastructure (FCI), SESAR is researching satellite datalink technology for the continental and oceanic regions including digital voice (long-term SatCom), to support the ATM concept in the 2020+ timeframe. The tour will give an update on this research, as well as the latest on the implementation of datalink services in Europe.



**TOUR GUIDE: Ramon Raposo & Cristian Pradera, SESAR DM**

TRAVEL TIME	TIME	TOUR STOPS	PRESENTATION TITLE	SPEAKER
 10:00 – 12:00	10:00	Europe For Aviation (849)	CHECK IN	
	10:15	Europe for Aviation (849) (SESAR DM pod)	Introduction	Ramon Raposo & Cristian Pradera, SESAR DM
	10:30	Inmarsat (863)	The Iris programme	Sylvie Sureda-Perez, Inmarsat
	10:45	Honeywell (1231)	Future satellite communications (SATCOM IRIS)	Radek Zaruba, Honeywell
	11:00	PANSA (239)	Implementation of data-link Services for the ATM in FIR Warsaw	Rafał Cichocki, PANSA
	11:15	EANS (1169)	DLS implementation project - path 1 "ground" stakeholders	Kristo Vallimäe, EANS
	11:30	Leonardo (890)	Full interoperable ENR-GND datalink communication ATN/OSI platform	Pierluigi Fantappiè, Leonardo
	11:45	Leonardo (890)	Improvement on airport routing and communication with vehicle via datalink based on Internet protocol (IP)	Aniello Napolitano, Leonardo
	12:00	END OF TOUR		



Thank you for participating

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