



| ICAO

AIR NAVIGATION WORLD

COMMUNICATIONS, NAVIGATION, SURVEILLANCE, AND SPECTRUM

CNSS 2026

12 - 15 October | Kotor, Montenegro

Hosted by



IFATSEA
International Federation of
Air Traffic Safety Electronics
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PROGRAMME

The Future of International Civil Aviation: Legal Trends and Institutional Resilience

DAY 1 – Monday, 12 October 2026	
08:30 – 09:30	Registration and badge pickup
Open Attendance	
09:30 – 10:30	Opening Ceremony
10:30 – 11:00	Group Photo Session Refreshment Interlude
11:00 – 11:45	Session 1 - Station in the Sky: Extending Space-Based VHF to Remote and Oceanic Airspace Global connectivity is the backbone of modern aviation yet extending reliable communications to oceanic and remote airspace has long been a major geographical challenge. Space-Based VHF (SB-VHF) is transforming aviation by extending reliable voice and data communications into oceanic and remote regions. Acting as a "station in the sky," SB-VHF delivers connectivity without requiring airspace users to undergo costly equipment upgrades. This panel will highlight the accomplishments in advancing this technology. The discussion will explore the key opportunities, implementation challenges, and future impact of SB-VHF on global airspace. <u>Moderator</u> Mr. Raza Ali Gulam, Technical Officer CNS, ICAO <u>Panelists</u> Mr. Andrew Yang, NAV CANADA Mr. Manuel García Martín, ENAIRE Mr. Craig Benson, Skykraft Mr. José Luis Chinchilla García, Startical
11:45 – 12:30	Session 2 - Evolution of Space-Based Technologies – Advanced SATCOM This panel will highlight the accomplishments in developing standards for Advanced SATCOM that supports evolving services such as ATS B2 data operations and secure voice dialing, matching the enhanced technical capabilities of systems already deployed. By aligning these standards with both new and legacy constellations, the SATCOM technologies ensure higher link availability and the high-integrity connectivity required for global Trajectory Based Operations (TBO). The session will discuss the current and future use of SATCOM technologies and how they will meet the evolving operational requirements. <u>Moderator</u> Mr. Nikos Fistas, EUROCONTROL

	<u>Panellists</u> Mr. Andrew Ives, Inmarsat Ms. Kathy Torrence, FAA Mr. Khaled Eltanany, IATA Mr. Jean-Michel Crenais, DSNA
12:30 – 13:30	Networking Lunch
13:30 – 14:30	Session 3 - Modernizing the Ground: Transitioning Terrestrial Infrastructure to LDACS This Panel will explore the modernization of terrestrial infrastructure driven by the accomplishments. The discussion focuses on the transition to high-bandwidth, IP-based ground systems, specifically the new SARPs for the L-band Digital Aeronautical Communication System (LDACS). LDACS will provide a secure, spectrum-efficient data link that complements legacy VHF to support ATS B2 and future B3 operations. This technology provides the robust, low-latency foundation necessary for global Trajectory Based Operations (TBO) <u>Moderator</u> Mr. Michael Schnell, DLR <u>Panellists</u> Mr. Mattia Nurisso, EUROCONTROL Mr. Manuel García Martín, ENAIRE Mr. Kai Guo, China Mr. Bernhard Haindl, Frequentis Mr. Francesco Gualtieri, Rohde & Schwarz
14:30 – 15:00	Session 4 - Surface Safety Redefined: High-Integrity Connectivity via AeroMACS This flash talk will focus on the technology-agnostic updates for AeroMACS and how it facilitates high-integrity connectivity on the airport surface, integrating seamlessly with the global Aeronautical Telecommunications Network (ATN). The discussion will highlight how AeroMACS supports a wide array of critical applications, including Visual Taxiing Guidance, Vehicle Management, and essential Runway Safety systems such as runway status light control and vehicle intrusion prevention to enhance overall surface safety. <u>Moderator</u> Mr. Kai Guo, China <u>Speaker</u> Mr. Stephane Pelleschi, Collins Aerospace
15:00 – 15:30	Refreshment Interlude
15:30 – 16:30	Session 5 - Empowered Skies: Women in CNS This panel will begin with a keynote address, followed by a panel discussion on advancing and empowering women in Communications, Navigation and Surveillance (CNS). Drawing on experiences



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	from across the global aviation technical community, the session will showcase successful career paths, leadership examples, and regional perspectives. The panel will feature women ATSEP professionals from all ICAO Regions, sharing their career journeys, challenges, achievements, and insights on enhancing the role and visibility of women in CNS <u>Speaker</u> Ms. Véronique TRAVERS SUTTER, EUROCONTROL <u>Moderator</u> Mr. Carlos Aguirre, IFATSEA Vice-President
16:30 – 16:50	Skytalk - Farseer
16:50 – 17:00	Wrap-up of Day 1



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DAY 2 – Tuesday, 13 October 2026

09:00 –09:45

Session 6 - Evolution of Network Architectures

With the Aeronautical Telecommunication Network using the Internet Protocol Suite (ATN/IPS) standards now adopted, this session provides guidance for ANSPs and airlines transitioning to modern IP-based network architectures. The discussion will highlight what implementation will look like from their perspective. Where do they start from and any practical guidance. A major highlight is the transition to VoIP (Voice over IP), a transformative application that unlocks significant operational efficiencies.

The panel discussion will focus on the shift from legacy protocols to a modern IP-based global network architecture, essential for high-integrity data exchange. Attendees will gain insights into the new SARPs and guidance material developed for global interoperability and the integration of cyber resilience to protect communication infrastructure. By standardizing these IP-enabled pathways, a secure, scalable foundation is now in place for further enhancements. Furthermore, some of the implementation challenges will be discussed.

Moderator

Mr. Liviu Popescu, EUROCONTROL

Panelists

Ms. Kathy Torrence, FAA

Mr. Greg Saccon, Boeing

Mr. Stéphane Tamalet, Airbus

Mr. Stephane Pelleschi, Collins Aerospace

Mr. Bernhard Haindl, Frequentis

Mr. Michal Skorepa, Honeywell Aerospace

09:45 –10:30

Session 7 - Collaboration between ICAO and other SMOs

This flash talk will focus on the essential interaction between ICAO and Standards Making Organizations (SMOs). The discussion will address the links between ICAO SARPs and Manuals and Industry Standards to facilitate the implementation. A key focus of this session is the introduction of the Standards Round Table, chaired by ICAO.

This initiative is designed to avoid duplication of effort and optimize the limited resources available across the global aviation standards community. Also highlight the global impact and significance when elements of industry standards are referenced into ICAO Standards. The Roundtable brings together leaders from these organizations to discuss the synchronization of timelines, the reduction of regional fragmentation, and the development of shared roadmaps for emerging technologies and procedures. This collaborative approach ensures a unified path toward achieving global safety and navigation plans

Moderator

ICAO

Speakers

Mr. Nikos Fistas, EUROCONTROL

Mr. Andrea Trimarchi, EUROCAE

10:30–11:00

Refreshment Interlude



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11:00–12:30	Session 8 - GNSS RFI Today: From Awareness to ACTION This panel will bring together experts from across the aviation ecosystem to discuss where we stand today on GNSS RFI. After several years of awareness campaigns and collaborative efforts led by ICAO, GNSS RFI remains a growing concern for aviation. The discussion will look at how the situation has evolved, what has changed in terms of impacts and mitigation measures, and whether the aviation community is making the transition from simply raising awareness to taking concrete action. Panelists will share their perspectives on lessons learned, remaining gaps, and the practical steps needed to improve aviation resilience <u>Moderator</u> Mr. Hette HOEKEMA, EASA <u>Panelists</u> Mr. Nikola Cojic, Executive Board Member, IFATSEA Mr. Ken Alexander, Chief Scientist Satellite Systems, FAA Ms. Eman Almarashda, Senior ANS Engineering Officer, UAE Mr. Bülent ATAŞ, Risk Assessment Pilot, Turkish Airline Dr. Sai K. Kalyanaraman, Principal Technical Fellow, Collins Aerospace
12:30 – 13:30	Networking Lunch
13:30 – 14:00	Session 9 - GNSS Spectrum Protection: The ITU Framework This flash talk will provide an overview of the critical role of the International Telecommunication Union (ITU) in protecting the radio-frequency spectrum used by GNSS. As aviation and other critical sectors become increasingly dependent on GNSS-based services, protecting these frequencies from interference is essential to ensuring safety, efficiency, and resilience. The session will examine the ITU regulatory framework for spectrum protection, current challenges associated with GNSS RFI, and key mitigation measures available to States, and regulators. It will also highlight actions taken by ITU to address harmful interference, strengthen spectrum management practices, and enhance awareness of emerging threats. <u>Moderator</u> ICAO <u>Speaker</u> Mr. Nikolai Vassilliev, ITU
14:00 – 14:15	Skytalk
14:15 – 15:00	Session 10 - Resilience by Design: NAV MON/RON As aviation becomes more dependent on GNSS, ensuring resilience against disruptions is increasingly important for maintaining safe, efficient, and continuous air navigation services. This flash talk will introduce the emerging Resilient Operational Network (RON) concept and explain how it can help strengthen the resilience of navigation services. The session will explore the role of terrestrial navigation systems as part of a broader Complementary Positioning, Navigation and Timing (CPNT) approach. It will also look at the evolution from the

	Minimum Operational Network (MON) to the RON concept. Participants will gain an overview of ICAO's ongoing work in this area, including the objectives of RON, its relationship with MON, key elements currently under development, and planned next steps. <u>Moderator:</u> Ms. Muna Alnadaf, Technical Officer CNS, ICAO
15:00 – 15:30	Refreshment Interlude
15:30 – 16:00	Session 11 - SBAS: Enabling Growth in AFI Satellite-Based Augmentation Systems (SBAS) are transforming the way aviation leverages satellite navigation by enhancing the accuracy, integrity, availability, and continuity of GNSS-based services. For the Africa Region, SBAS presents a significant opportunity to support the modernization of air navigation systems, improve operational efficiency, and expand access to advanced navigation capabilities. This flash talk will provide an overview of SBAS and its benefits for the AFI Region, including its potential to enhance safety, improve airport accessibility, and support the growth of air transport across diverse operational environments. The session will highlight recent developments, ongoing initiatives, and implementation efforts aimed at advancing SBAS services within the region. <u>Moderators</u> Mr. Harvey Lekamisy, Regional Officer CNS, ICAO ESAF Office Ms. Sandrine GNASSOU, Regional Officer CNS, ICAO WACAF Office <u>Speaker</u> Mr. Julien Lapie, ASECNA
16:00 – 16:30	Session 12 - Validating SARPs: from Draft to implementation The development of ICAO Standards and Recommended Practices (SARPs) requires a rigorous validation process to ensure they are technically sound, operationally relevant, globally applicable, and ready for implementation. This flash talk will provide an overview of the methodology used by the ICAO Navigation Systems Panel (NSP) to validate proposed SARPs throughout their development lifecycle. The flash talk will explore how operational requirements, technical specifications, analyses, and real-world operational experience are used to assess the feasibility and effectiveness of new provisions before they are advanced for adoption. It will highlight the role of validation in identifying gaps, addressing implementation challenges, and ensuring that proposed SARPs deliver the intended operational benefits while maintaining safety and interoperability. <u>Moderator</u> Ms. Soniya Nibhani, Regional Officer CNS, ICAO APAC Office <u>Speaker</u> Mr. Susumu Saito, Principal Researcher, Electronic Navigation Research Institute (ENRI) Japan
16:30 – 16:50	Skytalk – SKAI Data Services
16:50 – 17:00	Wrap-up of Day 2



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DAY 3 – Wednesday, 14 October 2026

09:00 – 10:30

Session 13 - Voices of Air Traffic Safety Electronics Personnel

Air Traffic Safety Electronics Personnel (ATSEP) play a vital role in the provision and maintenance of the communications, navigation, surveillance, and air traffic management (CNS/ATM) systems that underpin safe and efficient air navigation. As aviation continues to evolve through digitalization, automation, and the introduction of new technologies, the role of ATSEP is becoming increasingly critical and complex.

This panel discussion will bring together ATSEP professionals to examine the challenges and opportunities shaping the future of the profession. Topics will include training for emerging technologies, maintaining technical competence in a rapidly changing environment, addressing the global shortage of qualified ATSEP personnel, and attracting and retaining the next generation of technical experts. The panel will also explore the potential development of a global IFATSEA survey to better understand the size of the ATSEP workforce, identify workforce gaps, and support evidence-based planning for the future of the profession.

Moderator

Mr. Carlos Aguirre, IFATSEA Vice-president

Panelists

Mr. Frank Kofi Apeagyei, IFATSEA President

Mr. Costas Christoforou, IFATSEA Regional Director Europe

Mr. Michel Gaulin, IFATSEA Regional Director Americas

Mr. Umesh Kumar, IFATSEA Regional Director APAC

Mr. Sam Mahlangu, IFATSEA Regional Director Africa

Mr. Khaled Nsiri, IFATSEA MENA / Communications Office chief

10:30–11:00

Refreshment Interlude

11:00–12:30

Session 14 - Eyes on the Future: Surveillance Without Borders

This panel will focus on the ICAO Surveillance Panel (SP) work programme and strategic priorities. The discussion will highlight how ground-based surveillance systems and airborne collision avoidance capabilities complement each other to form a layered safety architecture that enhances situational awareness and supports safe, efficient, and resilient air traffic management operations.

Moderator

Mr. Yi Luo, Technical Officer CNS, ICAO

Panelists

Mr. Stuart McKay, UK CAA

Mr. Christian Aveneau,

Mr. Eric Potier, EUROCONTROL

Mr. Miles Bellman

12:30 – 13:30

Networking Lunch

13:30 – 15:00	Session 15 - Beyond Radar: The Technologies Transforming This panel will explore the modernization of ground-based and satellite-based surveillance systems and the evolving technical frameworks that support future air traffic management. The session will address key challenges and developments, including 1030/1090 MHz interference mitigation, the implementation of performance-based surveillance, the evolution of ADS-B technologies, and advancements in surface surveillance and Advanced Surface Movement Guidance and Control Systems (A-SMGCS). <u>Moderator</u> Mr. Stuart McKay, UK CAA <u>Panelists</u> Mr. Eric Potier, EUROCONTROL Mr. Miles Bellman
15:00 – 15:30	Refreshment Interlude
15:30 – 16:30	Session 16 - From Seeing to Avoiding: The Evolution of Airborne Surveillance This panel will focus on the evolution of airborne surveillance applications and their role in supporting safer and more efficient air traffic operations. The session will examine recent developments in ACAS X and ACAS III, progress in Interval Management applications, emerging surface awareness initiatives, and the integration of Airborne Collision Avoidance Systems (ACAS), Detect and Avoid (DAA) capabilities, and Remotely Piloted Aircraft Systems (RPAS) into the air traffic management environment. Through expert insights and operational perspectives, the discussion will highlight how these advancements are shaping the future of airborne surveillance and enhancing safety across increasingly complex and diverse airspace operations. <u>Moderator</u> Mr. Christian Aveneau <u>Panelists</u> Mr. Bogdan Petricel, EUROCONTROL Mr. Jean-Baptiste Berthier, Airbus (TBC) Mr. Matt Haskin, FAA
16:30 – 16:50	Skytalk
16:50 – 17:00	Wrap-up of Day 3

**DAY 4 – Thursday, 15 October 2026****09:00 – 10:30****Session 17 - Non-Safety Spectrum for Safety Systems?
Implications of the Aviation Safety Spectrum**

Surging demand for radiofrequency spectrum is placing increasing pressure on aviation's critical safety bands. The rapid expansion of non-safety services is contributing to a more congested spectrum environment, raising concerns about capacity constraints, and the resilience of systems that support safe flight operations. At the same time, aviation is facing growing expectations to consider the use of non-safety spectrum for safety related functions, introducing additional complexity and potential uncertainties into an already constrained landscape. As aviation becomes more dependent on seamless communications, navigation, and surveillance, safeguarding safety spectrum is no longer solely a technical matter, but it is a strategic consideration. Navigating this evolving environment will require a careful balance between enabling innovation and access, without risking the integrity and reliability of aeronautical safety critical systems.

This panel will explore the growing tension between non-safety and safety spectrum use in aviation. It will examine the strategic protection needs and congestion risks associated with these spectrums, as well as their implications for system design and regulation. The discussion will feature the insights from regulators, industry experts, and operators.

Moderator

Ms. Mie Utsunomiya, CNS Technical officer, ICAO

Panellists

Mr. Elvis Babacic, EKIP

Mr. Christian Fleury, Spectrum Manager, DSNA-DGAC, France

Dr. Juliane Iten, Engineer Frequency Planning, Federal Office of Communications OFCOM

10:30–11:00**Refreshment Interlude****11:00–12:30****Session 18 - Radio Altimeter Interference: What is the threat to aviation safety?**

The rapid national rollout of 4G and 5G is intensifying concerns about radio altimeter (RA) interference and has become one of the most critical spectrum issues for aviation safety in recent years.

Additionally, studies under ITU-R WRC-27 Agenda Item 1.7 are examining the potential introduction of new 6G systems adjacent to the radio altimeter frequency band. This evolving spectrum environment and its safety impacts on the radio altimeter raises important questions on safe coexistence, and the adequacy of technical/operational safeguards.

At the same time, it has been recognized under Assembly Resolution A42-7 that aviation stakeholders need to strengthen their engagement in ongoing spectrum studies. The current limited participation of aviation experts in ITU ITU-R activities may lead to insufficient awareness among decision makers of the associated safety implications, with risks that aviation safety requirements may not be fully understood or appropriately addressed.

This session will examine the ongoing assessment of potential 4/5/6G interference to radio altimeters both nationally and internationally. It will address potential safety impacts, current operational and equipage challenges, evolving national positions, and available mitigation strategies, while bringing



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	together perspectives from regulators, industry stakeholders, and operators on options to strengthen a coordinated global aviation response. Moderator Mr. Andrew Roy, Director, Engineering Services, Aviation Spectrum Resources, Inc (ASRI) Panellists TBD - FAA TBD - ECTL/EASA TBD - Dr. Sai K. Kalyanaraman, Principal Technical Fellow, Collins Aerospace TBD - Mtel (Montenegro) TBD - IATA TBD - ICCAIA (Airbus)
12:30 – 13:30	Networking Lunch
13:30 – 14:30	Session 19 – How to design and implement new systems to meet future spectrum challenges As aviation enters an era of rapid technological transformation, the future of communications, navigation, and surveillance (CNS) systems must be reimaged to thrive in an increasingly dynamic and contested spectrum environment. The convergence of new entrants, digital technologies, and cross sector demands is reshaping how spectrum is accessed, shared, and safeguarded. Traditional approaches to CNS development, often characterized by long lifecycle timelines, are being challenged by the pace of innovation and the need for greater agility. Looking ahead, aviation must embrace more adaptive, integrated system designs that incorporate spectrum considerations from the outset, enable seamless interoperability, and harness emerging technologies to support scalable and resilient operations. This transformation is not only essential for maintaining safety and efficiency, but also for positioning aviation as a forward looking and responsible user of spectrum in a highly connected world. These forward-looking flash talks will examine how future CNS systems can be designed and integrated to address growing spectrum pressures, leveraging innovation, modernization, and cross-sector coordination to ensure resilient and efficient use of spectrum in an evolving aviation environment. Moderator Mr. Christian Fleury, Spectrum Manager, DSNA-DGAC, France Speakers Mr. Andrew Roy, Director, Engineering Services, Aviation Spectrum Resources, Inc (ASRI) Mr. Katsuyuki Arakawa, Air Traffic Safety Electronics Personnel, Japan Civil Aviation Bureau
14:30 – 14:50	Skytalk
14:50 – 15:00	Closing and wrap-up