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FUTURE.**



# Main outcomes of ICAO 14th Air Navigation Conference

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Sven Halle

ICAO EUR/NAT Office

RDGE/SCM

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## Recommendations on Air Navigation System performance improvements that could be of interest to RNDSG and NETOPS

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Agenda Item 1: Update on the ICAO 2023-2025 Business Plan and long-term strategic planning

Agenda Item 2: Timely and safe use of new technologies

Agenda Item 3: Air navigation system performance improvement

Agenda Item 4: Hyper-connectivity of air navigation system

## Recommendation 1.1/2 - Airspace optimization initiatives and ATM Contingency management

That States:

- a) implement airspace optimization initiatives covered by ICAO provisions, such as air traffic flow management, flexible use of airspace and civil-military cooperation;
- b) share advance information related to anticipated disruptions; and

That ICAO:

- c) together with States and industry, develop global guidance on air traffic management contingency management, including the recovery phase, as well as regional frameworks, to support the implementation of Annex 11 — Air Traffic Services.

## Recommendation 2.2/2 - GNSS RFI

That States:

- a) ensure that effective global navigation satellite system radio frequency interference mitigation measures are implemented, based on measures developed by ICAO and industry, including the need to maintain a sufficient network of conventional navigation aids to ensure operational safety as well as sufficient airspace capacity during times of GNSS interference;
- b) through the mechanism of the planning and implementation regional groups, develop regional or global navigation satellite system reporting mechanisms, as described in the Global Navigation Satellite System (GNSS) Manual (Doc 9849); and
- c) work with industry to provide guidance on detecting global navigation satellite system jamming or spoofing and maintaining safe and efficient aircraft operation in case of global navigation satellite system anomalies;

## Recommendation 2.2/2 - GNSS RFI

That ICAO:

- d) develop a standardized implementation package to assist and guide States in implementing effective global navigation satellite system radio frequency interference mitigation measures, including optimization and rationalization of conventional navigation aids, commensurate with their local conditions, to ensure continuity in the provision of air navigation services;
- e) develop guidance on civil-military coordination in relation to harmful interference to global navigation satellite system(s) originated or detected by military authorities; and
- f) review aircraft minimum equipage lists to ensure compatibility with States' implemented minimum operational networks.

Recommendation  
3.1/1  
- Project 30/10 -  
Optimized  
implementation of  
longitudinal  
separation  
minima

That States:

- a) within the processes of the planning and implementation regional groups, actively collaborate with neighbouring States to implement Project 30/10 - implementation of longitudinal separations of 55.5 km (30 NM) or less in oceanic and remote airspace, and 19 km (10 NM) or less elsewhere;

That ICAO:

- b) through the planning and implementation regional groups, develop regional action plans for the implementation of Project 30/10;
- c) monitor and support inter-regional collaboration for a harmonized implementation of Project 30/10; and
- d) consider other minimum service level procedures, via a framework, for implementation in oceanic and remote airspace.

Recommendation  
3.1/2  
- Study into the  
feasibility of  
establishing an  
ICAO air  
navigation  
efficiency  
programme

That ICAO undertake a study into the feasibility of establishing an ICAO air navigation efficiency audit programme, or other suitable initiative, involving States and international organizations throughout the study.



## Recommendation 3.1/3 - Enabling successful deployment of trajectory-based operations

That States:

- a) and regions expedite the implementation of trajectory-based operations enablers that are considered mature and relevant; and
- b) support ICAO in expediting its work programme on trajectory-based operations and its enablers, including the development of a plan and timeline for their implementations;

That ICAO:

- c) develop and maintain an ICAO work programme addressing the full scope of trajectory-based operations;
- d) develop ICAO provisions and guidance for automated air-ground trajectory synchronization; and
- e) investigate the need for the evolution of service priority policy in support of trajectory-based operations implementation.

Recommendation  
3.1/4  
- Free route  
airspace

That States:

- a) actively collaborate with neighbouring States to implement free route airspace;

That ICAO:

- b) develop provisions and guidance material to support harmonized implementation of free route airspace, including implementation across airspace boundaries and regions.

Recommendation  
3.1/5  
- Delegation of  
responsibility for  
provision of air  
traffic services

That ICAO develop a framework to support States considering delegation of responsibility for provision of air traffic services.

Recommendation  
3.1/6  
- Addressing the  
safe integration of  
space transport  
operations into  
the airspace  
system

That ICAO:

- a) work with Member States and international organizations to identify, compile and publish best practices, as necessary, related to the safe and efficient air navigation of aircraft around space transport operations; and
- b) develop guidance material for air navigation services providers related to the integration of space transport operations, including NOTAM dissemination, stakeholder communication associated with specific operations, air traffic flow management, and data-sharing for real-time updates on the status of the airspace, excluding telemetry data of launch vehicles.

Recommendation  
3.1/7  
- Higher airspace  
operations

That ICAO:

- a) develop a holistic vision and global concept for higher airspace operations, including regulatory approval, coordination responsibilities and liability, for inclusion in its work programme for the next triennium; and
- b) develop provisions related to the safe and efficient transit of aircraft through controlled airspace and separation management in higher airspace, including air traffic management procedures contingency planning and risk assessment and monitoring methodologies, including for uncontrolled descents of higher airspace operations vehicles.

Recommendation  
3.2/2  
- FF-ICE and  
sunset date  
FPL2012

That States:

- a) in support of the 2034 global cessation of the ICAO 2012 flight plan, commence the development of a national plan to transition to flight and flow – information for a collaborative environment services along with industry stakeholders;
- b) include plans for the implementation of both minimum and optional flight and flow – information for a collaborative environment services in the national air navigation plans;
- c) share experience and information for the implementation of flight and flow – information for a collaborative environment services;
- d) planning and implementation regional groups, consider establishing regional focus groups for coordinating the planning and implementation of flight and flow – information for a collaborative environment services and providing necessary support throughout the transition period; and
- e) support and contribute to the work of their respective planning and implementation regional group and their sub-groups to develop a regional plan to transition to flight and flow information for a collaborative environment services on the basis of the 2034 global cessation of the ICAO 2012 flight plan

Recommendation  
3.2/2  
- FF-ICE and  
sunset date  
FPL2012

That ICAO:

- f) amend relevant ICAO provisions and guidance material to enable the 2034 global cessation of the ICAO flight plan and associated air traffic services messages;
- g) through planning and implementation regional groups, provide guidance and support for the development of regional plans to transition to flight and flow – information for a collaborative environment to enable the 2034 global cessation of the ICAO 2012 flight plan;
- h) support inter-regional collaboration for a harmonized implementation of and transition to flight and flow – information for a collaborative environment services;
- i) monitor and support the progress of flight and flow – information for a collaborative environment services implementation and transition plan developments of States; and
- j) conduct a periodic assessment and report on the readiness of the global air traffic management community for the 2034 global cessation of the ICAO 2012 flight plan.

## AN-Conf/14 Recommendations Regional Follow-up

EASPG/6 (Paris, 3 to 6 December 2024)

NATSPG/ 61 (Paris, 24 to 27 June 2025)

will discuss and agree on any actions required at the regional level.





Any Questions?



Thank You!