



Thirteenth Air Navigation Conference (AN-Conf/13)

From Development to Implementation

Montréal, Canada, 9 to 19 October 2018

Presented by the Secretariat

Workshop for the preparation/update of national air navigation plans in accordance to the Aviation System Block Upgrade (ASBU), the CAR Regional Performance-Based Air Navigation Implementation Plan (RPBANIP) and the Global Air Navigation Plan (GANP).

Barbados, from August 6 to 9, 2018







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The AN-Conf/13 Conference addressed a broad range of flight safety and air navigation capacity and efficiency issues



The Conference was opened to all Member States and attendance by senior officials in a decision-making capacity is desirable to achieve the stated outcomes of the Conference.



Two Committees:

- Air Navigation Committee (Committee A) considered draft report Agenda Items 1, 2, 3, 4, and
- Aviation Safety Committee (Committee B) considered draft report Agenda Items 6, 7, and 8.





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Agenda Item 1: Air navigation global strategy

1.1: Vision and overview of the sixth edition of the **GANP**

1.2: Air navigation performance improvement and measurement through the aviation system block upgrades (ASBUs) and basic building blocks (BBBs) framework

1.3: Air navigation roadmaps

1.4: Air navigation business cases



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Agenda Item 2: Enabling the global air navigation system

2.1: Aerodrome operations and capacity

2.2: Integrated CNS and spectrum strategy

2.3: Future provision of aeronautical meteorological service

Optimized airport planning and design and total airport management

Air navigation system as a whole /increase pressures on aeronautical frequency spectrum

Future MET services



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- ★ Importance of global, regional and national air navigations planning, alignment through four differents levels:
 - ★1. Global Implementation
 - ★2. Technical level
 - ★3. Regional level
 - ★4. National Level

40th

TRIENNIAL ASSEMBLY

ICAO Headquarters, Montréal, Canada, 2019



★New charactiristic of Aviation:

- ★New forms of demands
- **★**Emerging technologies
- ★Innovation ways to do bussiness
- ★Human Factors



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- ★ Incorporate emerging air navigation concepts such as unmaned aircraft systems (UAS), UAS traffic management (UTM), Global aeronautical distress and safety system (GADSS).
- ★ Data and global aviation internet network, Regional Integration.
- ★ Civil-military dimension would also incluide in the GANP.
- ★Importance of human factors role in Aviation.



- ★ Quantitative benefits derived from the implementation of the operational improvements outlined in the ASBU framework and why substantial investments should be tied to their associated costs and benefits.
- ★ Information management is a key enabler for the future of the air navigation system and, therefore, for important concepts within the ASBU framework such as trajectory-based operations (TBO), flight and flow information for a collaborative environment (FF-ICE) and airport collaborative decision-making (A-CDM).



★Lack of information exchange could limit the efficient use of capacity and capability within the system.



★ The importance of strengthening the relationship between the GANP and the Global Aviation Safety Plan (Doc 10004, GASP) and recognized that the GASP supports the implementation of the GANP by promoting the effective implementation of safety oversight and a safety management approach to oversight, including safety risk management, to permit the evolution of the air navigation system in a safety-managed way.



★https://www4.icao.int/ganpportal



- ★ the relationship between ASBUs and BBBs and their impact on the regional plans
- ★BBB was aligned with Volumen I and II of Air Navigation Plans. Were the planning and implementation of the ASBUs were addressed in Volumen III.



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Agenda Item 3: Enhancing the global air navigation system

3.1: System-wide information management (SWIM)

3.2: Flight and flow information for a collaborative environment (FF-ICE) and trajectory-based operations (TBO)

3.3: Air traffic flow management (ATFM)

3.4: Civil/military cooperation

3.5: Other ATM issues





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Agenda Item 4: Implementing the global air navigation system and the role of planning and implementation regional groups (PIRGs)

4.1: The economic benefits brought by aviation

4.2: Implementing
BBBs and
minimum service
Standards

4.3: Implementing ASBUs for performance improvement

4.4: Implementing search and rescue (SAR) processes and procedures



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Agenda Item 5: Emerging issues

5.1: Operations above Flight Level 600

5.2: Operations below 1000 feet 5.3: Remotely piloted aircraft system (RPAS)

5.4 Cyber resilience

5.5: Other emerging issues impacting the global air navigation system including unmanned aircraft systems (drones), and supersonic and commercial space operations



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Agenda Item 6: Organizational safety issues

6.1 Strategic plan – GASP/ GASOS

6.2 Implementation of safety management – SSP/SMS/Safety Intelligence

6.3 Monitoring and Oversight –USOAP CMA





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Agenda Item 7: Operational safety risks

7.1: Facilitation of data-driven decision-making in support of safety intelligence to support safety risk management

7.2: Operational safety risks at the global, regional and national levels, and the role of RSOOs and RASGs in achieving the GASP goals

7.3: Other implementation issues



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Agenda Item 8: Emerging safety issues

8.1: Measures to proactively address emerging issues;

8.2: Emerging safety issues



CAPACITY & EFFICIENCY

