



International Civil Aviation Organization

MIDANPIRG Air Traffic Management Sub-Group

Eleventh Meeting (ATM SG/11)
(Abu Dhabi, UAE, 19 – 23 October 2025)

Agenda Item 5: Air Navigation Deficiencies in the ATM/SAR fields

POTENTIAL DEFICIENCIES RELATED TO ATM/SAR

(Presented by the Secretariat)

<p style="text-align: center;">SUMMARY</p> <p>This Working Paper provides additional tools to States to identify their potential of ATM and SAR deficiency.</p> <p>Action by the meeting is at paragraph 3.</p>
<p style="text-align: center;">REFERENCE(S)</p> <ul style="list-style-type: none">- ICAO Annex 11 and Annex 12- ICAO PANS ATM, Doc 4444- Global Air Navigation Plan, Doc 9750

1. INTRODUCTION

1.1 A deficiency is a situation where a facility, service or procedure does not comply with a Regional Air Navigation Plan approved by the Council, or with related ICAO Standards and Recommended Practices, and which situation has a negative impact on the safety, regularity and/or efficiency of international civil aviation.

1.2 The Basic Building Block (BBB) framework outlines the foundation of any robust air navigation system. It is nothing new but the identification of the essential services to be provided for international civil aviation in accordance with ICAO Standards. These essential services are defined in the areas of aerodromes, air traffic management, search and rescue, meteorology and information management. In addition to essential services, the BBB framework identifies the end users of these services as well as the assets (communications, navigation, and surveillance (CNS) infrastructure) that are necessary to provide them.

1.3 The BBB is considered an independent framework and not a block of the ASBU framework as they represent a baseline rather than an evolutionary step. This baseline is defined by essential services recognized by ICAO Member States as necessary for international civil aviation to develop in a safe and orderly manner. Once these essential services are provided, they constitute the baseline for any operational improvement.

2. DISCUSSION

2.1 In 2014, the ICAO Council approved a new template for the Regional Air Navigation Plans (ANPs) to better align global and regional planning. This template consists of three volumes. Volumes I and II list the regional facilities as well as the general and specific regional service

requirements, required for international civil aviation operations in accordance with regional air navigation agreements, in the areas of aerodrome operations, communications, navigation and surveillance, air traffic management, meteorology, search and rescue and aeronautical information management.

2.2 To set a baseline and to ensure a robust foundation for the global air navigation system, an effective process should be established to verify, pursuant to Article 37 of the Chicago Convention, that the essential ANS identified in the BBB framework are provided. If these essential services are not being delivered, ICAO, upon request of a State, provides the necessary technical assistance to address the needs as identified within the process.

2.3 Based on the above, the ICAO MID Office conducted a study on ATM and SAR fields to reiterate States commitment to Chicago Convention Article 28 (Air navigation facilities and standard systems), Article 37 (Adoption of international standards and procedures), related SARPs, PANS, and regional requirements in MID ANP Volume II to highlight the potential of deficiencies and support States to rectify related matters.

2.4 The requirements related to ATM are contained in Annex 11, ICAO DOC 4444: PANS ATM, MID ANP Volume II as well as MIDANPIRG Conclusions and Decisions. Further details regarding these requirements can be found in **Appendix A**.

2.5 The requirements related to SAR are contained in Annex 11, Annex 12 and ICAO DOC 4444: PANS ATM, MID ANP Volume II as well as MIDANPIRG Conclusions and Decisions. Further details regarding these requirements can be found in **Appendix B**.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review the list of basic requirements related to ATM and SAR fields at **Appendices A and B**;
- b) urge States to comprehensive review by the MID States to identify this requirements status and report to ICAO MID for further review and actions; and
- c) assist States in addressing the potential deficiencies through development of the action plan with necessary follow-up with the relevant State focal points to rectify the related issues and challenges.

[illegible]

State basic requirements checklist related to SAR											
States	Search and Rescue									States percentage	
	Process Emergency Notification										Receive Emergency
	INCERFA		ALERFA		DETRESFA						
	Coordination	Evaluation	Alert to be prepared	Design SAR Plan	Design SAR Plan	Develop SAR Plan for Incident	Impelement SAR Plan for Incident				Alerting service
		Emergency report					Task	Request Assistance	Notify		
	Annex 12, chapter 5	Annex 12, chapter 5	Annex 12, chapters 3,5	Annex 12, chapters 3,5	Annex 12, chapters 3,5	Annex 12, chapters 3,5	Annex 12, chapters 3,5	Annex 12, chapters 3,5	Annex 12, chapters 3,5		Annex 11, chapters 2,5
			Annex 11, chapter 5	Annex 11, chapter 5	Annex 11, chapter 5	Annex 11, chapter 5	Annex 11, chapter 5	Annex 11, chapter 5	Annex 11, chapter 5		
PANS-ATM: Ch. 9.2 and Ch. 10.2											
Bahrain											
Egypt											
Iran											
Iraq											
Jordan											
Kuwait											
Lebanon											
Libya											
Oman											
Qatar											
Saudi Arabia											
Sudan											
Syria											
UAE											
Yemen											
Regional Percentage											

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