

International Civil Aviation Organization

# ELEVENTH MEETING OF THE MIDANPIRG AIM SUB-GROUP (AIM SG/11)

(Amman, Jordan, 22 – 23 January 2025)

#### Agenda Item 4: AIM Planning and Implementation in the MID Region

#### MID REGION AIM IMPLEMENTATION ROADMAP

(Presented by the secretariat)

#### **SUMMARY**

This paper presents the MID Region AIM Implementation Roadmap, for review and update by the AIM SG/11.

Action by the meeting is at paragraph 3.

#### REFERENCES

MID Region AIM Implementation Roadmap

#### 1. Introduction

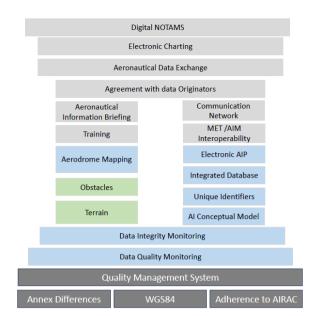
- 1.1 The meeting may wish to recall that the MIDANPIRG/17 meeting endorsed the MID Region AIM Implementation Roadmap.
- 1.2 The meeting may wish to recall also that the MIDANPIRG/18 meeting, through Conclusion 18/19, urged States to provide the ICAO MID Office with their updated National AIM Implementation Roadmap, using a standard Template.
- 1.3 The MIDANPIRG/19 meeting noted that all MID States provided their updated National AIM Implementation Roadmap except, Iraq, Syria and Yemen. The meeting urged those States to submit their updated National AIM Implementation Roadmap without delay.
- 1.4 The meeting may wish to note that Saudi Arabia provided its 2025 AIM Implementation Roadmap.

#### 2. DISCUSSION

- 2.1 In line with AIM SGG responsibilities towards MIDANPIRG, the AIM SG meeting should review and provide continuous updates (as appropriate) of the Regional AIM Roadmap at **Appendix A.**
- 2.2 The meeting my wish to recall that the Roadmap for the Transition from AIS to AIM was developed in 2009, when yet the AIM Concept was not fully defined. Consequently the existing roadmap falls short in guiding stakeholders towards a full AIM; it rather directs States and Industry

towards a "digitalized AIS". Conversely transitioning to AIM is more than digitalization; it is a complete change of processes, procedures, products and services to better satisfy the need of the information consumers.

- 2.3 It should be also noted that since 2009 there have been many developments in ICAO that will assist in conducting an effective revision of the Roadmap.
- 2.4 The sixth edition of the Global Air Navigation Plan (GANP) has been progressed to better guide the aviation community in achieving a global interoperable air navigation system and endorsed by the 40th ICAO General Assembly (September 2019). This edition of the GANP offered a multi-layer structure to address the global and regional managerial and technical aspects; as well as a revised ASBU framework with a more detailed list of elements to be delivered in each block. The GANP introduced a robust framework for modernizing global air navigation, emphasizing performance-based planning, digital transformation, and the integration of advanced technologies. The seventh edition further refined these principles by incorporating emerging priorities such as enhanced interoperability, environmental sustainability, and increased focus on regional and global collaboration. Looking ahead, the upcoming eighth edition, set to be endorsed by the ICAO Assembly in 2025, will build upon these advancements, addressing the latest technological developments and aligning with the evolving needs of the global aviation community.
- 2.5 It is worth noting also that the AIM elements in the GANP have been highly improved to effectively assist States in transforming their traditional paper-based aeronautical information services into an evolutionary data-centric AIM.
- 2.6 Moreover, in November 2018, the 16th edition of Annex 15 and a new PANS-AIM have been adopted, defining the minimum data scope for interoperable digital data exchanges, strengthening the importance of quality controls along the aeronautical data process and supporting the integration of modern aeronautical information products (digital data sets).
- 2.7 The MID Region AIM Implementation Roadmap, initially developed based on the 2009 global roadmap, has served as a valuable guide for advancing AIM implementation across the region. However, with the significant advancements in aviation technology and evolving priorities outlined in the latest edition of the Global Air Navigation Plan (GANP), it is essential to amend and update the roadmap. Aligning the MID Region roadmap with the latest GANP ensures consistency with global objectives, integrates emerging technologies, and addresses new challenges, enabling a seamless transition from AIS to AIM that meets the current and future needs of the aviation community.
- 2.8 In light of these considerations, the MID Region AIM Implementation Roadmap for the Transition from AIS to AIM should be revised to guide stakeholders towards full AIM environments, in compliance with the latest ICAO plans and provisions. A detailed mapping of the previous roadmap against the latest GANP Edition is crucial. This will help identify gaps, integrate emerging technologies, and address new challenges, enabling the region to meet the current and future needs of the aviation community effectively.





#### 3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
  - a) review and update the MID Region AIM Implementation Roadmap at **Appendix** A; and
  - b) discuss and agree on the approach for updating the MID Region AIM Implementation Roadmap for the Transition from AIS to AIM.

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## NATIONAL AIM IMPLEMENTATION

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Phase/Step	2019-	2020	2021	2022	2023	2024	2025	2026	2027	2028
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AIM SG/11-WP/4

### **APPENDIX A**

Attachment A to SL Ref: AN 8/4-21/071

Dated 19 May 2021

## [ ROADMAP



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## NATIONAL AIM IMPLEMENTATION F

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QMS													
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Dated 19 May 2021



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Dated 19 May 2021



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Dated 19 May 2021

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Dated 19 May 2021

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Dated 19 May 2021



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Dated 19 May 2021



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Dated 19 May 2021



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## NATIONAL AIM IMPLEMENTATION F

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Dated 19 May 2021



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Interoperability with MET products													
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	0	Not Started
Legend	1	In Progress
	2	Implemented

Dated 19 May 2021

### N ROADMAP



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			Date						
2032+	Start	End		Remarks					
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				Completed by December 2023					
			December 2015	5					

## NATIONAL AIM IMPLEMENTA

Dhara/S4an							Tim	eline					
Phase/Step	2019-	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WGS-84													
AIRAC													
QMS													
AIXM database (AIXM 5.1+)													
eAIP													
Terrain Area 1													
Obstacle Area 1													
Terrain Area 2a (plus TKOF flight path and OLS)													
Obstacle Area 2a (plus TKOF flight path and OLS)													
Terrain Area 2b, 2c, 2d													
Obstacle Area 2b, 2c, 2d													
Terrain Area 3													
Obstacle Area 3													
Terrain Area 4													
Obstacle Area 4													
AIP Datasets													
Aerodrome Mapping Datasets													
IFP Datasets													
Agreement with data originators													
Provision of quality-assured aeronautical data and information													
Training													
NOTAM Improvements													
Aeronautical data exchange													
Dissemination of Aeronautical Information in SWIM environment													
Electronic aeronautical charts													
Interoperability with MET products													
Aeronautical information briefing													

0	Not Started

Legend	In Progress
	2 Implemented

Dated 19 May 2021

## **TION ROADMAP**



			State	Qatar
			<b>Date</b>	31 May 201
			Date	·
2032+	Start	End		Remarks
	2009	2009		
	2010	2010		
		2011		
		2018	***************************************	
	2013	2014	***************************************	
	2009	2009		
	2009	2009		
	2013	2013	***************************************	
	2013	2013		
	2013	2013		
		2013		
		2009		
		2009		
		2009		
	2009	2009		
	2015	2023	AIP datasets gr	rouping on-going.
	2017	2023	Aerodrome ma	pping data migration on-going.
	2016	2023	IFP data migra	
	2010	2012	SLA update on	
	2009	2011		
	2013	2015		
	2019	2021	Digital NOTAM s	ystem acquisition on-going.
	2016	2025	1) AIP exchange in TBD.	mplemented on Mar 2018; 2) IFP exchange TBD; 3) Chart exchange
	2019	2028	SWIM system/infr	astructure acquisition on-going.
	2016	2025	Charting and A	AIMDB system interoperability on- going.
	2014	2014	PIB online gen	neration implemented on May 2014

## NATIONAL AIM IMPLEME!

Phase/Ste	Timeline											
p	2019-	2020	2021	2022	2023	2024	2025	2026	2027			
WGS-84												
AIRAC												
QMS												
AIXM												
database												
(AIXM												
5.1+)												
eAIP												
Terrain												
Area 1												
Obstacle					***************************************							
Area 1												
Terrain												
Area 2a												
(plus												
TKOF												
flight path												
and OLS)												
Obstacle												
Area 2a												
(plus												
TKOF												
flight path												
and OLS)					***************************************							
Terrain												
Area 2b,												
2c, 2d									************************			
Obstacle												
Area 2b,												
2c, 2d					***************************************							
Terrain												
Area 3												
Obstacle												
Area 3												
Terrain							Not Ap	plicable				
Area 4												
Obstacle							Not Ap	plicable				
Area 4							*					
AIP												
Datasets												
Aerodrome												
Mapping												
Datasets												

## NTATION ROADMAP

							State	Kingdom of Saudi Arabia		
							Date	17/12/2024		
2028	2029	2030	2031	2032+	Start	End	Rei	marks		
2020		2000	2001	2002	Imple	nented				
						nented				
					Implei	nented				
					Implei	nented	implemented since August 2023 ensure the AIXM 5.1			
					Implei	nented	ուս մահմահմահմանանահում սուսն	?aanaaanaanti		
						nented				
					Implei	nented	***************************************			
					Implei	mented				
					Implei	mented				
					Implei	nented	***************************************			
					Implei	nented				
					Implei	mented				
					Implei	nented				
					***************************************	_	Not Applic	cable		
	***************************************					-	Not Appli	cable		
					2025	2026	activity air	ace, special space, ATS		
					2026	2029	प्राच्चतंत्राचित्रं विद्यार्थे स्वतंत्र्ये व्यवस्थात्रे स्वतंत्र्ये स्वतंत्र्ये स्वतंत्र्ये स्वतंत्र्ये स्वतंत	व्यवस्थानस्थानस्थानस्थानस्थानस्थानस्थानस्थान		

## NATIONAL AIM IMPLEMENTATION F

Dh a sa /Chan							Tim	eline					
Phase/Step	2019-	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WGS-84													
AIRAC													
QMS													
AIXM database (AIXM 5.1+)													
eAIP													
Terrain Area 1													
Obstacle Area 1													
Terrain Area 2a (plus TKOF flight path and OLS)													
Obstacle Area 2a (plus TKOF flight path and OLS)													
Terrain Area 2b, 2c, 2d													
Obstacle Area 2b, 2c, 2d													
Terrain Area 3													
Obstacle Area 3													
Terrain Area 4													
Obstacle Area 4													
AIP Datasets									,				
Aerodrome Mapping Datasets													
IFP Datasets													
Agreement with data originators													
Provision of quality-assured aeronautical data and information													
Training													
NOTAM Improvements													
Aeronautical data exchange													
Dissemination of Aeronautical Information in SWIM environment													
Electronic aeronautical charts													
Interoperability with MET products													
Aeronautical information briefing													

	0	Not Started
Legend	1	In Progress
	2	Implemented

Dated 19 May 2021



			State	Sudan	
			Date		
	Start	End		Remarks	
2032+	Start	Ellu		Kemai Ks	
	1998				
	2014				
	2010				
	2016	2019			
	2016	2019			
	2019	2022			
	2019	2022			
			***************************************		
			***************************************		
			***************************************		
			***************************************		
	2010	2022			
	2019	2022	***************************************		
	2019	2022	***************************************		
	2016	2019	***************************************		
	2015				
	2015				
	2016				
		Ongoin			
		g			
	2005				
	2021				
	2021				
	2012				
	2005				

## NATIONAL AIM IMPLEMENTATION R

Dhoso/Ston							Tim	eline					
Phase/Step	2019-	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WGS-84													
AIRAC													
QMS													
AIXM database (AIXM 5.1+)													
eAIP													
Terrain Area 1													
Obstacle Area 1													
Terrain Area 2a (plus TKOF flight path and OLS)													
Obstacle Area 2a (plus TKOF flight path and OLS)													
Terrain Area 2b, 2c, 2d													
Obstacle Area 2b, 2c, 2d													
Terrain Area 3													
Obstacle Area 3													
Terrain Area 4													
Obstacle Area 4													
AIP Datasets													
Aerodrome Mapping Datasets													
IFP Datasets													
Agreement with data originators													
Provision of quality-assured aeronautical data and information													
Training													
NOTAM Improvements													
Aeronautical data exchange													
Dissemination of Aeronautical Information in SWIM environment													
Electronic aeronautical charts													
Interoperability with MET products													
Aeronautical information briefing													

	0	Not Started
Legend	1	In Progress
	2	Implemented

Dated 19 May 2021



		1			
			State	Syrian Arab	Republic
			State Date		
2032+	Start	End		Remarks	
			***************************************		
			***************************************		
***************************************					
			***************************************		
			***************************************		
			***************************************		

## NATIONAL AIM IMPLEMENTATI

Dhaga/S4an	Timeline												
Phase/Step	2019-	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WGS-84													
AIRAC													
QMS													
AIXM database (AIXM 5.1+)													(11111111111111111111111111111111111111
eAIP													(11111111111111111111111111111111111111
Terrain Area 1													(11111111111111111111111111111111111111
Obstacle Area 1													(11111111111111111111111111111111111111
Terrain Area 2a (plus TKOF flight path and OLS)													
Obstacle Area 2a (plus TKOF flight path and OLS)													
Terrain Area 2b, 2c, 2d													
Obstacle Area 2b, 2c, 2d													
Terrain Area 3													
Obstacle Area 3													
Terrain Area 4			*************										
Obstacle Area 4			*************										
AIP Datasets													
Aerodrome Mapping Datasets													
IFP Datasets													
Agreement with data originators													
Provision of quality-assured													
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Training													
NOTAM Improvements													
Aeronautical data exchange													

Dissemination of Aeronautical Information in SWIM environment							
Electronic aeronautical charts							
Interoperability with MET products							
Aeronautical information briefing							

	0	Not Started
Legend	1	In Progress
	2	Implemented

Dated 19 May 2021

## **ION ROADMAP**



			State	United Arab Emirates
			Date	14 June 2021
2032+	Start	End		Remarks
			***************************************	
			***************************************	
	2014	2014		ΓOD surveys are ongoing at all aerodrome ducted by certified surveyors.
	2014	2014	For Cat II and	II only, as per ICAO SARPs
	2014	2014	For Cat II and	II only, as per ICAO SARPs II only, as per ICAO SARPs
	2021		Technical spec	rifications, implementation plan and setting s completed. Data verification and sample creation
			***************************************	
			***************************************	
			***************************************	
	2019		appropriate ab text length bey NOTAM inclu Originators and requirements p development.	orepared and in discussion with GCAA IT for
	2019		Ongoing with	certain Data Originators and States.

	2021		Infrastructure is in place, testing is ongoing. It will be made available to stakeholders when all tests are successfully completed.
	2019		En-route FIR charts implemented. Some SID/STAR charts implemented and will be progressively completed.
	2012	2012	

## NATIONAL AIM IMPLEMENTATION R

Phase/Step		Timeline											
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WGS-84													
AIRAC													
QMS													
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Electronic aeronautical charts													
Interoperability with MET products													
Aeronautical information briefing													

	0	Not Started
Legend	1	In Progress
	2	Implemented

Dated 19 May 2021

		ı			
			State	Y	emen
			Date		
				-	
2032+	Start	End		Remarks	
2002					
			***************************************		