



*International Civil Aviation Organization*

**MIDANPIRG AIM Sub-Group**

**Third Meeting (AIM SG/3)**  
*(Cairo, Egypt, 15 - 18 May 2017)*

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

**MID REGION AIM IMPLEMENTATION ROADMAP**

*(Presented by the Secretariat)*

**SUMMARY**

This working paper presents the MID Region AIM implementation Roadmap and the National AIM implementation Roadmap template for the update by the meeting.

Action by the meeting is at paragraph 3.

**REFERENCES**

- MIDANPIRG/16 Report
- MSG/5 Report

**1. INTRODUCTION**

1.1 The MSG/5 meeting, through MSG Conclusion 5/10, urged States to take into consideration the “MID Region AIM implementation Roadmap” in planning for the transition from AIS to AIM in a prioritized manner; and provide the ICAO MID Regional Office with their updated National AIM Implementation Roadmap on an annual basis (by end of December).

**2. DISCUSSION**

***MID Region AIM implementation Roadmap***

2.1 The meeting may wish to recall the MID Region AIM implementation Roadmap was initiated by the AIM SG/1 meeting (Cairo, Egypt, 6-8 May 2014), with a focus on the Phase 2 of transition from AIS to AIM, in order to support regional harmonization in AIM implementation.

2.2 The meeting may wish to recall that the MIDANPIRG/16 meeting, through the review of MID Region Air Navigation Strategy, agreed to update certain timelines/targets of the Priority 1 ASBU Block 0 Modules included in the MID AN Strategy, for harmonization purpose. Accordingly, some timelines of the B0-DATM elements and the MID Region AIM implementation Roadmap were updated, as at **Appendix A**.

***National AIM implementation Roadmaps***

2.3 The meeting may wish to recall that the National AIM implementation Roadmap template was developed by AIM SG/1 to support States in their national AIM planning. The template was used by States to develop and provided further update of their National AIM implementation Roadmaps.

2.4 It is to be noted with appreciation that twelve (12) States (Bahrain, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Sudan and UAE) have provided their National AIM Implementation Roadmaps. The MSG/5 meeting recognized that the “National AIM Implementation Template” was a useful tool to support States in the development of their National AIM Implementation Roadmaps; and agreed, through MSG Conclusion 5/10, that States should provide their updated National Implementation Roadmap on an annual basis (by end of December) using the Roadmap Template at **Appendix B**.

2.5 As a follow-up action to the MSG Conclusion 5/10, the ICAO MID Office issued SL Ref.: AN 8/4 - 16/261 dated 22 Sep 2016. Updated Versions (2016-2017) of the National AIM implementation Roadmaps have been received from Bahrain, Egypt, Iran, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Sudan and UAE:

<b>Status of the National AIM Roadmaps</b>		
	<b>State</b>	<b>Date of Issue</b>
1	BAHRAIN	Jan 2016
2	EGYPT	Nov 2016
3	IRAN	Aug 2016
4	IRAQ	Sep 2015
5	JORDAN	Nov 2014
6	KUWAIT	Nov 2016
7	LEBANON	Aug 2016
8	LIBYA	-
9	OMAN	Nov 2016
10	QATAR	Sep 2016
11	SAUDI ARABIA	April 2017
12	SUDAN	April 2017
13	SYRIA	-
14	UAE	Nov 2016
15	YEMEN	-

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) urge States to implement the provisions of the MSG Conclusion 5/10;
- b) review and update, as necessary, the MID Region AIM implementation Roadmap at **Appendix A**; and
- c) review and update, as necessary, the National AIM implementation Roadmap Template at **Appendix B**.

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MID REGION AIM IMPLEMENTATION ROADMAP FOR THE TRANSITION FROM AIS TO AIM

	2014 2016				2015 2017				2016 2018				2017 2019				2018 2020				Priority	Remarks
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
AIXM	Yellow	Yellow	Yellow	Yellow	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	1	The target: is to have 60% by 2015, 80% by 2017 and 100% by 2019
eAIP	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Green	Green	1	The target: is to have 60% by 2016, 80% by 2018 and 100% by 2020
Terrain A-1	Yellow	Yellow	Yellow	Yellow	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	2	The target: is to have 50% by 2015, 70% by 2018
Obstacle A-1	Yellow	Yellow	Yellow	Yellow	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	2	The target: is to have 40% by 2015, 60% by 2018
Terrain A-4	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	2	The target: is to have 50% by 2015, 100% by 2018
Obstacle A-4	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	2	The target: is to have 50% by 2015, 100% by 2018
Terrain A-2a	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	3	The target: is to have 30% by 2017, 50% by 2018
Obstacle A-2a	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	3	The target: is to have 30% by 2017, 50% by 2018
Data Quality Monitoring	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	3	Target for 2018: To be implemented by 50% of the States that have implemented QMS at least for the segment originator-AIS (excluding the segment AIS-End user)
Data Integrity Monitoring	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	3	
Agreement with data originators	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	3	
Terrain and Obstacle for Areas 2b, 2c, 2d and 3																	Yellow	Yellow	Yellow	Yellow	4	Optional based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs
Aerodrome Mapping																	Yellow	Yellow	Yellow	Yellow	4	Optional based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs
New steps/elements of phase 3, as necessary																						TBD
New steps/elements of phase 3, as necessary																						TBD
New steps/elements of phase 3, as necessary																						TBD

White: Not started      Yellow: Initial Target      Orange: Intermediate Target      Green: Target for full implementation

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APPENDIX B

NATIONAL AIM IMPLEMENTATION ROADMAP TEMPLATE

Phase/Step	Step No.	Timeline												Start	End	Remarks	
		2014	2016	2015	2017	2016	2018	2017	2019	2018	2020						
<b>Phase I</b>																	
AIRAC adherence	P-03																
WGS-84 implementation	P-05																
QMS	P-17																
<b>Phase II</b>																	
Data Quality Monitoring	P-01																
Data Integrity Monitoring	P-02																
AIXM	P-06																
Unique identifiers	P-07																
Aeronautical information conceptual model	P-08																
eAIP	P-11																
Terrain A-1	P-13																
Obstacle A-1	P-14																
Terrain A-4	P-13																
Obstacle A-4	P-14																
Terrain A-2	P-13																Please specify implementation of Area 2a, 2b, 2c and/or 2d
Obstacle A-2	P-14																Please specify implementation of

Phase/Step	Step No.	Timeline															Start	End	Remarks		
		2014 2016			2015 2017			2016 2018			2017 2019			2018 2020							
																					Area 2a, 2b, 2c and/or 2d
Terrain A-3	P-13																				
Obstacle A-3	P-14																				
AD Mapping	P-15																				
<b>Phase III</b>																					
Aeronautical data exchange	P-09																				
Communication networks	P-10																				
Aeronautical information briefing	P-12																				
Training	P-16																				
Agreement with data originators	P-18																				
Interoperability with meteorological products	P-19																				
Electronic aeronautical charts	P-20																				
Digital NOTAM	P-21																				

<b>Legend</b>		Not Started
		In Progress
		Implemented