International Civil Aviation Organization

MIDANPIRG Steering Group

Fourth Meeting (MSG/4)
(Cairo, Egypt, 24 - 26 November 2014)

Agenda Item 4: **MID Region Air Navigation Planning**

MID REGION AIM IMPLEMENTATION ROADMAP

(Presented by the Secretariat)

SUMMARY
This paper presents the MID Region AIM Implementation Roadmap for endorsement by the MSG/4 meeting. Action by the meeting is at paragraph 3.
REFERENCES
− AIM SG/1 Report

1.   INTRODUCTION

1.1   The AIM SG/1 meeting was held in the ICAO MID Regional Office in Cairo, 6-8 May 2014.

2.   DISCUSSION

2.1   The meeting may wish to recall that, in order to keep pace with the AIM/SWIM developments, MIDANPIRG/14 through Conclusion 14/19 urged States to develop/update their National Plans for the transition from AIS to AIM with a view to support seamless ATM in a SWIM environment.

2.2   The meeting may wish to note that seven (7) States (Bahrain, Iran, Kuwait, Qatar, Saudi Arabia, Sudan and UAE) provided their National AIM Plan/Roadmap to the ICAO MID Regional Office. However, taking into consideration latest developments, some of these plans need to be updated. Latest status of the States' National Plans is shown in the Table below:

	State	Last update
1	**Bahrain**	7 May 2014
2	**Iran**	15 SEP 2009
3	**Kuwait**	31 August 2009
4	**Qatar**	16 February 2014
5	**Saudi Arabia**	18 February 2014
6	**Sudan**	22 April 2014
7	**UAE**	July 2011

2.3   Based on the above, AIM SG/1 meeting discussed ways and means to assist States in developing/updating their AIM Implementation Roadmap/National Plan and how to foster the transition from AIS to AIM in the MID Region and accordingly developed National AIM Implementation Roadmap Template as at **Appendix A**. The meeting may wish to note that seven (7) States (Iran, Iraq, Jordan, Lebanon, Oman, Qatar, Saudi Arabia and UAE) have provided their National AIM Implementation Roadmap using the Template.

2.4   The meeting may wish to note that the AIM SG/1 meeting agreed that the focus should be on the implementation of phase II of the Roadmap for the transition from AIS to AIM and developed the *"MID Region AIM implementation Roadmap"* as at **Appendix B**.

2.5   Based on the above, the meeting may wish to agree on the following Draft MSG Conclusion emanating from the AIM SG/1 meeting (Draft Conclusion 1/4 and 1/5 with minor amendments):

Why	Need to foster the transition from AIS to AIM by developing/updating the National AIM Implementation Roadmap/Plan
What	National AIM Implementation Roadmap/Plan
Who	States
When	Before 1 March 2015

DRAFT MSG CONCLUSION 4/XX: NATIONAL   AIM   IMPLEMENTATION ROADMAP TEMPLATE

That, States:

a) *be invited to take into consideration the "MID Region AIM implementation Roadmap" at* **Appendix B** *in planning for the transition from AIS to AIM in a prioritized manner;*

b) *that have not yet done so, be urged to provide the ICAO MID Regional Office with their National AIM Implementation Roadmap using the Template at* **Appendix A***, before* **1 March 2015**

3.   ACTION BY THE MEETING

3.1   The meeting is invited to endorse, as appropriate, the proposed Draft MSG Conclusion.

APPENDIX A

NATIONAL AIM IMPLEMENTATION ROADMAP TEMPLATE

Phase/Step	Step No.	Timeline					Start	End	Remarks
		2014	2015	2016	2017	2018			
Phase I									
AIRAC adherence	P-03								
WGS-84 implementation	P-05								
QMS	P-17								
Phase II									
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 Area 2a, 2b, 2c and/or 2d

A-2

Phase/Step	Step No.	Timeline					Start	End	Remarks
		2014	2015	2016	2017	2018			
Terrain A-3	P-13								
Obstacle A-3	P-14								
AD Mapping	P-15								
Phase III									
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								

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APPENDIX B

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

	2014				2015				2016				2017				2018				Priority	Remarks
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
AIXM	Y	Y	Y	Y	Y	Y	Y	Y	O	O	O	O	O	O	O	O	G	G	G	G	1	The target is to have 60% by 2015, 80% by 2017 and 100% by 2019
eAIP	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	O	O	O	O	O	O	O	O	1	The target is to have 60% by 2016, 70% by 2018 and 100% by 2020
Terrain A-1	Y	Y	Y	Y	Y	Y	Y	Y	O	O	O	O	O	O	O	O	O	O	O	O	2	The target is to have 50% by 2015, 70% by 2018
Obstacle A-1	Y	Y	Y	Y	Y	Y	Y	Y	O	O	O	O	O	O	O	O	O	O	O	O	2	The target is to have 40% by 2015, 60% by 2018
Terrain A-4	Y	Y	Y	Y	Y	Y	Y	Y	G	G	G	G	G	G	G	G	G	G	G	G	2	The target is to have 50% by 2015, 100% by 2018
Obstacle A-4	Y	Y	Y	Y	Y	Y	Y	Y	G	G	G	G	G	G	G	G	G	G	G	G	2	The target is to have 50% by 2015, 100% by 2018
Terrain A-2a	W	W	W	W	W	W	W	W	Y	Y	Y	Y	Y	Y	Y	Y	O	O	O	O	3	The target is to have 30% by 2017, 50% by 2018
Obstacle A-2a	W	W	W	W	W	W	W	W	Y	Y	Y	Y	Y	Y	Y	Y	O	O	O	O	3	The target is to have 30% by 2017, 50% by 2018
Data Quality Monitoring	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	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	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	3	
Agreement with data originators	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	3	Target for 2018: 50% of the States that have implemented QMS
Terrain and Obstacle for Areas 2b, 2c, 2d and 3	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	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 (AMDB)	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	4	Optional based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs

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