



International Civil Aviation Organization

MIDANPIRG/21 & RASG-MID/11 Meetings

(Abu Dhabi, UAE, 4 – 8 March 2024)

Agenda Item 5.3: ANS (AIM, PBN, AGA-AOP, ATM-SAR, CNS and MET reference to the related meeting Agenda Items

MID Air Traffic Flow Management (ATFM)

(Presented by ATFM TF Chairman and the Secretariat)

SUMMARY

This paper presents the latest developments related to the Air Traffic Flow Management implementation in the MID Region.

Action by the meeting is at paragraph 3.

REFERENCE

- MIDANPIRG/20 AND RASG-MID/10 MEETINGS REPORT (MUSCAT, OMAN, 14-17 MAY 2023)
- ICAO MID DOC 014: MID ATFM PLAN (V2.0)
- ATFM TF/8 MEETING SUMMARY OF DISCUSSION (VIRTUAL, 31 OCTOBER – 1 NOVEMBER 2023)
- NINTH MEETING (ATM SG/9) (SHARM EL SHEIKH, EGYPT, 14 – 16 NOVEMBER 2023)

1. INTRODUCTION

1.1 The MIDANPIRG/19 meeting, through Conclusion 19/14, endorsed the revised version of the MID ATFM Plan (V2.0), which was published under the ICAO MID website as MID Doc 014: <https://www.icao.int/MID/MIDANPIRG/Pages/MID-Docs.aspx>.

1.2 The MIDANPIRG/19 meeting encouraged the States to develop and implement the ATFM plan on national level, the MID Doc 014 included guidance material for developing a national implementation plan, and training requirements considering the current regional capabilities.

1.3 The MIDANPIRG/20 meeting tasked the ATFM TF to develop and circulate a survey to monitor the level of ATFM implementation and provide the necessary support.

2. DISCUSSION

2.1 The meeting may wish to note that ICAO and International Organizations would provide support, as appropriate, to the States and ANSPs to further support the ATFM implementation; the MID Office successfully organized the MID ATFM Implementation Workshop, which provided the

participants with a holistic view and the ATFM requirements, and reviewed the ATFM implementation plan (Phase 1A); the Workshop provided an opportunity to support the MID States in taking the proper actions required for implementing Phase 1A of the MID ATFM Implementation Plan within the agreed timelines. Additionally, the Workshop was considered a venue for States and international Organizations to share their experience and challenges among the MID ATFM TF members. A summary of the outcomes of the Workshop are available under ICAO Website: <https://www.icao.int/MID/Pages/2023/ATFM%20Workshop.aspx>.

2.2 Furthermore, the MIDANPIRG/20 meeting encouraged the MID States to use the information presented in the Workshop to support the implementation of Phase 1A, and report progress or challenges to the next TF meeting. The timeline of Phase 1A implementation according to the MID ATFM Plan was agreed to be 31 December 2023.

2.3 The meeting may wish to note that ATFM TF developed and circulated the ATFM Implementation Survey (2023), to the MID States to enable the TF to monitor the actual level of implementation and provide the necessary support, as required.

2.4 The details of the survey analysis were reviewed by the TF, the results were as follows:

- a) 10 States out of 15 MID States (66.6%) participated in this activity.
- b) the level of implementation of Phase 1 A items was found as follows:
 - i. National regulation, staffing and training: 53.6%.
 - ii. Demand analysis: 62.5%.
 - iii. Capacity calculation: 53.3%.
 - iv. Measures at airport and TMA: 45%.
 - v. Measures at ACC sector: 50.7%.
 - vi. Supporting tools: 63.3%.
 - vii. Airspace enhancements: 92.5%.
 - viii. ADP and ATFM measures: 42.1%.
- c) the overall implementation of ATFM Phase IA requirements was 56.5%.

2.5 Based on the above, the ATFM TF presented to the ATM SG the analysis, and the ATM SG identified the following common areas are required to foster the implementation of MID ATFM Phase IA:

- a) National Regulations and organizational subjects including ATFM posts (56%);
- b) capacity calculation (strategic level) at TMA(s) (40%);
- c) optimize the operations within the TMA(s), ACC(s) and interface with adjacent ACCs (-100%);
- d) daily pre-tactical capacity and demand analysis at TMA(s) (20%);
- e) NOPS B0/1: Initial integration of collaborative airspace management with ATFM (30%);
- f) ATFM Letter of Agreement/Procedures between the ACC(s) (34%); and
- g) coordinated ATFM Daily Plan (ADP) and share with the concerned Stakeholders (20%).

2.6 The ATFM TF will focus on the items identified above, and encouraged the MID Office to include, in its plan for the year 2024, further implementation support activities to enhance the level of implementation.

2.7 The meeting may wish to note that the level of ATFM implementation would vary from one FIR to another based on the level of airspace complexity, number of movements, demand, etc. However, to meet the requirements of Annex 11 (para 3.7.5), the national ATFM position should be the basis of any level of ATFM implementation, starting with the basic capacity vs demand analysis. the Manual on Collaborative Air Traffic Flow Management (Doc 9971) in addition to the MID Doc 014 would provide the required guidance for the establishment of ATFM service.

2.8 Accordingly, the meeting may wish to review the ATFM Action plan at **Appendix A**.

2.9 Based on the above, the meeting is invited to review and agree on the following Draft Conclusion, emanating from the ATM SG:

MIDANPIRG CONCLUSION 21/XX: DEVELOPMENT OF MID STATES ATFM PLAN

That,

- a) based on the guidelines provided in ICAO MID Doc 014: ATFM Plan (V2.0), MID States develop their respective ATFM implementation plan and agreements with adjacent FIRs and share them with ICAO MID;*
- b) by organising individual workshops, ICAO MID supports the development of States National ATFM Plans and implementation of ICAO Doc 014 requirements for Phase I (including Phase IA & IB), where requested; and*
- c) the MID ATFM Task Force is tasked with the identification of Priority ATFM Implementation Areas within the MID Region, to enable further implementation support activities.*

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the outcomes of the ATFM Implementation Survey (2023) and encourage States to complete the implement of Phase 1A of the MID ATFM Plan, according to the agreed timeline;
- b) review and agree on the Draft Conclusions in para 2.8; and
- c) encourage the ATFM TF members and the Stakeholders to further support the implementation activities.

ACTION PLAN FOR IMPLEMENTATION OF ATFM IN THE MID REGION

Key Activities	Action		Target date	Deliverable	Champion	Supported by	Status / RMKs
	No.	Description					
<u>Key Activity 1</u> Agreement on the ATFM Regional Framework	1.1	Recommending the best Scenario for a regional ATFM framework	20 Mar 2019	Recommendation	ATFM TF/2 meeting		Completed
	1.2	Presentation to the ACAO ANC/40	21 Mar 2019	Support	ACAO		Completed
	1.3	Preparing a Working Paper to MIDANPIRG/17	30 Mar 2019	WP	Secretariat	Chairman	Completed
	1.4	Agreement on the regional ATFM framework by MIDANPIRG	18 Apr 2019	MIDANPIRG Conclusion	MIDANPIRG/17	Secretariat	Completed
	1.5	Presentation to the ACAO Executive Council	28-29 Apr 2019	For support	ACAO		Completed
	1.6	Notifying States about MIDANPIRG/17 Conclusion and that the development of ATFM CONOPS started	30 Apr 2019	State Letter	ICAO	Chairman	Completed
<u>Key Activity 2</u> Development of CONOPS	2.1	Review of the CONOPS V0.1 during ATFM TF/3	12 Jan 2020	ATFM CONOPS draft V0.1	ATFM TF/3		Completed
	2.2	Further review V0.1 and develop V0.2 for presentation to the ATFM TF/4	20 Feb 2020	ATFM CONOPS draft V0.2	ATFM Core Team		Completed
	2.3	Review V0.2 by the ATFM TF/4	20 Sep 2020	ATFM CONOPS draft V0.2			Completed
	2.4	Presentation to ACAO ANC	28 Sep 2020	For Info and Support	ACAO		Completed
	2.5	Development of the CONOPS draft V0.3	20 Oct 2020	Chairperson and Secretariat			Completed
	2.6	Circulate the MID ATFM CONOPS draft V0.3 to ATFM TF members	20 Oct 2020	email to TF members for final comments	Secretariat	ACAO	Completed
	2.7	Feedback form Task Force members on the MID ATFM CONOPS draft V 0.3	31 Oct 2020	Feedback/comments	Task Force members		Completed
	2.8	Presentation of MID ATFM CONOPS draft V0.3 to ATM SG/6 for review	9 Nov 2020	Consolidated version of ATFM CONOPS V0.3	Chairman and Secretariat	ATFM Core Team	Completed
	2.9	Endorsement of the MID ATFM CONOPS V1.0 by MIDANPIRG/18	Feb 2021	ATFM CONOPS V1.0	MIDANPIRG/18		Completed
	2.10	Circulation of the MID ATFM CONOPS V1.0 to States	Mar 2021	ICAO Doc 014: MID Region ATFM CONOPS v1.0	posted under ICAO Website		Completed
	2.11	Presentation to ACAO Executive Council	29 – 30 June 2021	For Info and Support	ACAO		On-going

Key Activities	Action		Target date	Deliverable	Champion	Supported by	Status / RMKs
	No.	Description					
Key Activity 3 Development of ATFM Regional Framework and Common Operating Procedures	3.1	Development of ATFM Regional Framework and Common Operating Procedures initial draft V0.1 to be presented to the ATM SG/6	15 Nov 2020	ATFM Regional Framework and Common Operating Procedures initial draft V0.1	Chairperson and Secretariat		Completed
	3.2	Circulation of the ATFM Regional Framework and Common Operating Procedures initial draft V0.1 to ATFM TF members	15 Nov 2020	email to ATFM TF members for comments	Secretariat		Completed
	3.3	Feedback form Task Force members on ATFM Regional Framework and Common Operating Procedures initial draft V0.1	15 Dec 2020	Feedback/comments * consolidate the inputs (after receiving feedback)			Completed
		Development of: - ATFM Regional Framework draft V0.2, - ATFM Common Operating Procedures draft V0.2.	15 Nov 2021	- ATFM Regional Framework draft V0.2, - ATFM Common Operating Procedures draft V0.2.	ATFM Core Team	Volunteers (States/ ANSPs/ ORGs)	Completed
	3.4	Presentation to ACAO ANC	Q2 2022	For Info and Support	ACAO		
	3.5	Circulation of the: - ATFM Regional Framework draft V0.3, - ATFM Common Operating Procedures draft V0.3. to ATFM TF members.		email to ATFM TF members	ICAO	ACAO	Completed
	3.6	Feedback on V0.3.		Feedback/comments	ATFM TF members		Completed
	3.7	Consolidation of: - ATFM Regional Framework draft V0.4, - ATFM Common Operating Procedures draft V0.4. for presentation to ATM SG/7 meeting.	Nov 2021	Consolidated version of Draft ATFM Regional Framework and draft Common Operating Procedures	Chairman and Secretariat	Chairman ATFM Core Team	Completed
	3.8	Presentation to ACAO Executive Council.	TBD	For Info and Support	ACAO		
	3.9	Endorsement of MID ATFM Regional	Feb 2022	ATFM Regional	MIDANPIRG/19		Completed

Key Activities	Action		Target date	Deliverable	Champion	Supported by	Status / RMKS
	No.	Description					
		Framework and Common Operating Procedures V1.0 by MIDANPIRG/19		Framework and Common Operating Procedures V1.0			
	3.10	Circulation of the endorsed versions of CONOPS, Regional Framework and Common Operating Procedures and posting on the ICAO MID Website.	Q1 2022	State Letter	ICAO	ACAO	Completed
	3.11	Presentation to ACAO Executive Council	May 2022	For Info and Support	ACAO		
<u>Key Activity 4</u> Implementation of ATFM in the MID Region	4.1	Development of MID ATM Operational Data Exchange process	9 Nov 2020	MID ATM Operational Data exchange	Chairperson and Secretariat		Completed
	4.2	Presenting to the MIDANPIRG/18 for endorsement	Feb 2021	MIDANPIRG Conclusion 18/XX			Completed
	4.3	Establishment of the webpage under ICAO secure portal, including the ATM and Airspace user data	Feb 2021	Group name			Completed
	4.4	State nominated FPs briefings	June 2021				Completed
	4.5	Procedure for Teleconferences between concerned stakeholders to exchange ATM related info	2022	Teleconferences to exchange info	ICAO MID	States - IATA	Completed
	4.6	Implementation of the MID ATFM Regional Framework and Common Operating Procedures	Cont.	Implementation roadmap	States		On going Phase 1A implementation = 56.5% (as of TF/9)
	4.7	Implementation of ATFM framework at national level	Cont.	National ATFM framework	States		On going
	4.8	Development of Checklist and survey States' compliance	Q2 2023	Consolidate State compliance with the ATFM checklist	ATFM TF MID State	ICAO MID Office	Completed
<u>Key Activity 5</u> Post Implementation	5.1	Post implementation review	Each 3 months	Post Implementation review	ATFM Core Team		Where required
	5.2	Improvement of the ATFM Regional Framework and Common Operating Procedures	2024	V 3.0	ATFM TF	ATFM Core Team	Where required

Key Activities	Action		Target date	Deliverable	Champion	Supported by	Status / RMKS
	No.	Description					
Review of the MID ATFM Regional Framework	5.3	Review and continuous improvement of the ATFM Implementation in the MID Region with consideration of establishment of centralized ATFM system for the MID Region	TBD	Continuous improvement	ATFM TF	ATFM Core Team	
Key Activity 6 Training and raising awareness related to ATFM	6.1	Development of National ATFM Implementation Plan and Training Programme Template for qualifying ATFM Specialist	2023	Training Programme Template for ATFM Specialist	MID States		On going
	6.2	Development of working arrangement for the ATFM Visits to States that would include ATFM Workshop and/or training courses	2023	working arrangement for the ATFM Visits	MID States		On going
	6.3	Organizing an ATFM Workshop with the A-CDM Workshop	21-23 Oct 2019	A-CDM/ATFM Workshop	ICAO	ATFM TF	Completed
	6.4	Organizing ATFM Workshop/Training /webinars Awareness Courses: - Capacity calculation and declaration - ATFM Publications issues - Flight Planning systems capabilities	Q1 2023	ATFM Training Awareness/Courses	ICAO	TBD	Completed
	6.5	Conduct ATFM Support visits to States	2022 2023	ATFM Support visits	ATFM support Team	TBD	On going
	6.6	Conduct familiarization visits/webinars of ICAO ATM/CDM CADENA, Singapore, India, EUROCONTROL, FAA, etc.	On going	ATFM Familiarization Visits	ACAO ICAO		On going

Key Activity x Revision of MID ATFM Plan		To incorporate the latest amendment of reference material in the MID Doc 014	2024	Revised Doc 014			
Key Activity x Identification of Areas of applicability		Based on the level and complexity of operations, the ATFM TF identify the areas of applicability as priority for the support.		Categorized priority list, based on operational criteria.			

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