International Civil Aviation Organization

MIDANPIRG Air Traffic Management Sub-Group

Eighth Meeting (ATM SG/8)
(Amman, Jordan, 7 – 10 November 2022)

Agenda Item 4: **Planning and Implementation subject related to ATM/SAR**

MID AIR TRAFFIC FLOW MANAGEMENT (ATFM) PLAN

(Presented by the Secretariat)

SUMMARY
This paper presents the progress achieved for the development of the MID Region ATFM Implementation plan.
Action by the meeting is at paragraph 3.

REFERENCE(S)
- ATFM TF/6 Summary of Discussion (Virtual, 27 – 28 June 2022)   - ICAO Doc 014: MID ATFM Plan (V2.0)   - MIDANPIRG/19 and RASG-MID/9 Meetings Report (Riyadh, 14 – 17 February 2022)

1. **INTRODUCTION**

1.1   The need for an ATFM solution for the MID Region was identified by the MIDANPIRG/16 meeting (Kuwait, 13 - 16 February 2017) through Decision 16/16, where the ATFM TF was established, and MIDANPIRG/17 & RASG-MID/7 meetings (Cairo, Egypt, 15 - 18 April 2019) through Conclusion 17/22 that agreed on the Multi-Nodal Concept to be implemented in the MID Region, and tasked the ATFM TF to develop the CONOPS and related documents.

1.2   MIDANPIRG/17 meeting, through Conclusion 17/23, endorsed the ATFM Implementation Action Plan and invited States and Stakeholders to support the work of ATFM implementation related to them.

1.3   ATFM TF developed the initial version of the MID ATFM CONOPS, which was reviewed by the ATM SG/6 (Virtual, 9 - 12 November 2020) and endorsed by MIDANPIRG/18 meeting (Virtual, 15 - 22 February 2021) through Conclusion 18/28. The document was published as MID Doc 014 (V1.0).

1.4   ATFM TF/5 meeting tasked the Secretariat with the support of the TF Chairman and the MID ATFM Team members to draft the framework and common operating procedures, to include guidance material to support the implementation.

1.5   The Secretariat, with the support of the Chairman, has developed a draft version of the MID ATFM Implementation Plan V2.0. This version includes three parts: Regional Framework, Common Operating Procedures and Implementation Guidance Material, in addition to the endorsed CONOPS part.

1.6   ATFM TF/6 meeting reviewed the draft version to be submitted to the ATM SG/7 meeting, for final revision including the comments and feedback received from States, ORGs and ATFM Core Team, to be presented to the MIDANPIRG/19 Meeting (Riyadh, Saudi Arabia, 14 – 17 February 2022).

2.   DISCUSSION

2.1   The meeting may wish to note that the MIDANPIRG reviewed and endorsed the MID ATFM Plan (V2.0) through its Conclusion 19/14:

> *MIDANPIRG CONCLUSION 19/14:   MID ATFM PLAN (V2.0)*
>
> *That, the MID Doc 014 renamed as MID Region Air Traffic Flow Management Plan (V2.0), is endorsed and be published on the ICAO MID website.*

2.2   The MIDANPIRG/19 meeting encouraged the State 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 taking into account the current regional capabilities, based on the results of the last survey. The implementation of Phase 1A of MID Doc 014 Part I Chapter 5 (planned to be completed by December 2023) will also support the States in meeting its obligations, and closing the related PQ in the new version of USOAP-CMA.

2.3   The meeting may wish to highlight that the establishment of ATFM service would vary from one State to another based on the level of airspace complexity, number of movements, demand, etc. However, the national ATFM Manager position should be the basis of ATFM implementation, starting with the insurance of effective cross-border coordination and as a key element for a successful implementation of the Multi-nodal concept. The meeting may wish to note that 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.

2.4   Moreover, the meeting may wish to highlight that ICAO and International Organizations would provide support, as appropriate; including the ATFM workshop planned to be delivered during 2023 and the offer received from CANSO (ref IP/4 of this meeting).

2.5   Additionally, the meeting may wish to recall the ATFM implementation by Qatar during the FIFA World Cup 2022, and the development of its operating procedure based on the MID Region ATFM Plan. The FWC2022 ATFM training provided by Qatar was deliver to most of the MID States. An ATFM daily conference call is convened and the ATFM Daily Plan is developed and shared for the next day, in participation of the MID States and Airspace users. Further details are presented in PPT/10 of this meeting. The meeting may wish to note the FWC2022 ATFM implementation would be beneficial for the future ATFM implementation in the Region.

2.6   The meeting may wish to note that many events were planned during the year 2022 (Hajj Season, FWC 2022, COP27). Accordingly, the meeting may wish to support the conduct on periodic basis the Operational Data Exchange (OPSDataEx) meetings/conferences; to support different ATM tasks and ATC units planning during the period of increased traffic demand.

2.7   The meeting may wish to recall the key activities of the ATFM Implementation Action Plan:

        - Key Activity 1: Agreement on the ATFM Regional Framework
        - Key Activity 2: Development of CONOPS
        - Key Activity 3: Development of ATFM Regional Framework and Common Operating
                Procedures
        - Key Activity 4: Implementation of ATFM in the MID Region
        - Key Activity 5: Post Implementation Review of the MID ATFM Regional Framework

- Key Activity 6: Training and raising awareness related to ATFM

2.8　　　　According to the Action Plan, the TF activities will now be focused on capacity building and training activities, to ensure harmonized implementation. "shared comprehensive experience from Japan Civil Aviation experiences to support MID States to determine their needs and requirements for implementation of ATFM in timely and harmonized manner.

2.9　　　　Additionally, the meeting may wish to note MIDANPIRG Conclusion 19/16:

MIDANPIRG CONCLUSION 19/16:　　　ATFM IMPLEMENTATION

That,

a) *States be urged to take necessary measures to establish ATFM service in accordance with the MID Region ATFM Plan taking into consideration the available relevant guidance materials, and the willingness of ICAO and International organization to provide support as appropriate; and*

b) *ATFM TF be tasked to:*

i. *assess the available opportunities for the exchange of information and propose a way forward to the ATM SG; and*

ii. *develop a checklist for ATFM service implementation assessment and monitoring (regulation, declared capacity, organizational ATFM structure, procedure for information sharing, etc).*

2.10　　　　The meeting may wish to note the slow pace of implementation of the agreed actions/requirements of the MID ATFM Plan, in particular those related to the establishment of the ATFM service at the national level.

2.11　　　　The meeting may wish to note the planned training/workshop in Q1 2023 related to the implementation of Doc 014 and the calculation of Capacity.

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

3.　　**ACTION BY THE MEETING**

3.1　　　　The meeting is invited to:

a) note the progress achieved for the development of MID Doc. 014 (V2.0), available at ICAO MID Webpage: https://www.icao.int/MID/MIDANPIRG/Pages/MID-Docs.aspx;

b) invite States and Stakeholders to participate and support capacity building and training activities during 2023; and

c) encourage States to implement ICAO MID Doc. 014 plan regarding training and competency requirements and submit the ATFM TF with their data, feedback and progress, in the upcoming survey which will be developed by the ATFM TF and consolidate a regional implementation status and needs.

ACTION PLAN FOR IMPLEMENTATION OF ATFM IN THE MID REGION

Key Activities	Action		Target date	Deliverable	Champion	Supported by	Status / RMK
	No.	Description					
Key Activity 1 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
Key Activity 2 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 / RMK
	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		

Key Activities	Action		Target date	Deliverable	Champion	Supported by	Status / RMK
	No.	**Description**					
		Framework and Common Operating Procedures V1.0 by MIDANPIRG/19		Framework and Common Operating Procedures V1.0			Completed
	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		
Key Activity 4 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 endorcemnet	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	Teleconferences between concerned stakeholders to exchange ATM related info	2022	Teleconferences to exchange info	ICAO MID	States - IATA	On going under the FWC 2022
	4.6	Implementation of the MID ATFM Regional Framework and Common Operating Procedures	Cont.	Implementation roadmap	States		
	4.7	Implementation of ATFM framework at national level	Cont.	National ATFM framework	States		
Key Activity 5 Post Implementation Review of the MID ATFM	**5.1**	Post implementation review	Each 3 months	Post Implementation review	ATFM Core Team		
	5.2	Improvement of the ATFM Regional Framework and Common Operating Procedures	TBD 2022	Proposal for improved ATFM Regional Framework and Common Operating Procedures	ATFM TF	ATFM Core Team	

Key Activities	Action		Target date	Deliverable	Champion	Supported by	Status / RMK
	No.	**Description**					
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	TBD 2021	Training Programme Template for ATFM Specialist	ATFM TF / ATFM Core Team		
	6.2	Development of working arrangement for the ATFM Visits to States that would include ATFM Workshop and/or training courses	TBD 2021	working arrangement for the ATFM Visits	ATFM TF / ATFM Core Team		
	6.3	Organizing an ATFM Workshop with the planned A-CDM Workshop	21-23 Oct 2019	A-CDM/ATFM Workshop	ICAO/ACAO	ATFM TF	Completed
	6.4	Organizing ATFM Workshop/Training/wibnars Awaerness Courses: - Capacity calculation and declaration - ATFM Publications issues - Flight Planning systems capabilities	Q1 2023	ATFM Training Awaerness/Courses	ICAO/ACAO/IATA	TBD	
	6.5	Conduct ATFM Support visits to States	2022 2023	ATFM Support visits	ATFM support Team	TBD	
	6.6	Conduct familiarization visits/webinars of ICAO ATM/CDM CADENA, Singapore, India, EUROCONTROL, FAA, etc.	On going	ATFM Familiarization Visits	ACAO ICAO		

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