



International Civil Aviation Organization

MIDANPIRG Air Traffic Flow Management Task Force

Eighth Meeting (ATFM TF/8)
(Virtual, 31 October – 1 November 2023)

Agenda Item 2: Regional Framework

RESULTS OF THE MID ATFM IMPLEMENTATION SURVEY 2023

(Presented by the Secretariat)

SUMMARY

This paper presents the result of the MID ATFM Implementation Survey 2023.

Action by the meeting is at paragraph 3.

REFERENCES

- ICAO MID Doc 014 (MID ATFM Plan V2.0)
- ATFM TF/7 (Doha, Qatar, 8-9 February 2023)

1. INTRODUCTION

1.1 ICAO Doc 014 (MID ATFM Plan) Version 2 endorsed by MIDANPIRG/19; Conclusion 19/14 as follows:

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.

1.2 Through this document, Part I, item 5, implementation of the MID ATFM Plan was divided into the following Phases:

- a) REGIONAL ATFM CAPABILITY PHASE I (2 years)
 - i. PHASE IA (Expected implementation duration, 1 year);
 - ii. PHASE IB (Expected implementation duration, 1 year); and
- b) REGIONAL ATFM CAPABILITY PHASE II (3 years).

2. DISCUSSION

2.1 Based on the Presentations received from the States during ATFM TF/7 (Doha, Qatar, 8-9 February 2023), it was highlighted that the results of the last conducted ATFM implementation survey (in 2018) are not representing the latest developments by the States. The ATFM TF was encouraged to develop and circulate a new survey, including the activities of Phase IA of the MID ATFM Implementation Plan, to the MID States to enable the TF to monitor the actual level of implementation and provide the necessary support, as required.

2.2 Accordingly, the Secretariat, with the support of the ATFM TF Chairperson, developed and circulated the ATFM implementation survey Phase IA through ICAO MID State Letter (Ref: ME 3/2.1.1 – 23/193 dated 12 September 2023).

2.3 Based on ICAO MID Doc 014 requirement, the main areas have been identified and addressed by this questionnaire: a total of 41 questions including 38 predefined answer (implemented/Not implemented) and 3 explanatory questions asked States; under the following areas:

- a) *States focal points*;
- b) *National regulation, staffing and training*;
- c) *Demand analysis*;
- d) *Capacity calculations*;
- e) *Measures at airports and TMA*;
- f) *Measures at ACC sectors*;
- g) *Supporting tools*;
- h) *Enhancements*;
- i) *ADP and ATFM measures*; and
- j) *Additional information*.

2.4 The details of the survey analysis are presented at **Appendix A** which is categorized as follows:

- a) 8 States out of 15 MID States representing 53.3 per cent participated in this activity.
- b) the level of implementation in the following areas are as below:
 - i. *National regulation, staffing and training* is 60 per cent.
 - ii. *Demand analysis* is 66 per cent.
 - iii. *Capacity calculation* is 63 per cent.
 - iv. *Measures at airport and TMA* is 44 per cent.
 - v. *Measures at ACC sector* is 55 per cent.
 - vi. *Supporting tools* is 63 per cent.
 - vii. *Airspace enhancements* is 94 per cent.
 - viii. *ADP and ATFM measures* is 47 per cent.
- c) the overall implementation of ATFM Phase IA requirements was 60 per cent.

2.5 Based on the above, the following outlines should be considered by the MID States to foster the implementation of MID ATFM Phase IA:

- a) *organizational structure including ATFM posts (38%);*
- b) *capacity calculation (strategic level) at TMA(s) (50%);*
- 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) (13%);*
- e) *NOPS B0/1: Initial integration of collaborative airspace management with ATFM (38%);*
- f) *ATFM Letter of Agreement/Procedures between the ACC(s) (38%); and*
- g) *coordinated ATFM Daily Plan (ADP) and share with the concerned Stakeholders (25%).*

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review the result of the survey at **Appendix A**;
- b) encourage States to adhere with the requirements of ATFM Plan Phase IA. Reinforce the progress of the areas highlighted in 2.5 which are far below the plan and present their action and outcomes to the next ATFM TF meeting; and
- c) encourage international organizations and industry to support the implementation of the MID ATFM Plan by focusing on the area underlined in para 2.5.



Air Traffic Flow Management (ATFM) Survey 2023

Objective:

This ATFM Survey 2023 is prepared and circulated in accordance with the outcomes of the ATFM TF/7 (Doha, Qatar, 8-9 Feb 2023), the result will be reviewed by ATFM TF/8 before presenting to ATM SG/9 planned in November 2023 for further process.

History:

The ATFM TF/7 meeting noted that the results of the last ATFM implementation survey (conducted on 2018) are not representing the latest developments by the States, and encouraged the ATFM TF to develop and circulate a new survey, including mainly the activities of Phase IA of the MID ATFM Implementation Plan (MID Doc 014), to the MID States to enable the TF to monitor the actual level of implementation and provide the necessary support, as required.

Based on the above, ATFM TF/7 meeting agreed on the development and distribution of the ATFM implementation survey by the Secretariat supported by the Chairperson.

Methodology:

In this survey, a questionnaire is developed in accordance with ICAO MID Doc 014 (MID ATFM plan) implementation phase IA only. the questionnaire is composed of an objective and direct questions, to allow solid analysis of responses.

States that are ahead of Phase 1A of the MID Region Plan, are requested to elaborate on their current implementation in the text box at the end of the questionnaire; also, they are invited to share their experience in the implementation with the ATFM TF members.

Duration:

This questionnaire consists of 40 questions and expected to take 30 minutes to complete.

References:

- ICAO MID ATFM Plan (MID Doc 014): <https://www.icao.int/MID/MIDANPIRG/Pages/MID-Docs.aspx>
- GANP portal: <https://www4.icao.int/ganportal/>
- ASBU Elements: <https://www4.icao.int/ganportal/ASBU>

for further details/clarification, please contact Mr. Ahmad Kaveh (Akaveh@icao.int)

Please submit the response to ICAO MID at (icaomid@icao.int) before 10 October 2023.

This survey is also available online: <https://forms.office.com/r/wcdFsQbv9g>



#	Area	Questions	Bahrain	Egypt	Iran	Iraq	Jordan	Lebanon	Libya	Kuwait	Oman	Qatar	Saudi Arabia	Sudan	Syria	UAE	Yemen	
	Focal Point contact details	State Focal Point: Please enter: Name, Job Title, Department, Organization/State	Ahmed AlMalki A/Chief Air Traffic Management Kingdome of Bahrain	Mr.Mohamed Ali - ATM GD	seyedeh hannan sheikh mohammad amini	mohamad ali mohammed ATFM Manager GCANS - Iraq	not implemented			Mustafa Altarrah Head of Air Navigation Services Inspectors	Mohammed Rashid Al Balushi,ATFM focal/ATCO/ATSM,Air Traffic Services, CAA/Oman		Name: Ahmad Abu-Ghaleb Job title: ATFM Chief Department: Air Traffic Management Organization: Saudi Air Navigation Services (SANS)			Sagr Al Marashda, Senior Manager - Airspace Management, Air Traffic Management Department, UAE GCAA		
		Contact details: Please provide phone number and email address.	(973)17321085 a.almalki@mtt.gov.bh	m.ali@civilaviation.gov. eg- mohali777@gmail.com	h.amini@caa.gov.ir	009647708817030 atfm- manager@gcans.go v.iq	not implemented			+965 64444408	Telephon:+968 99771975. email:mohammad.balushi @caa.gov.om		Phone number: +966126848121 E-mail: asabughallah@sans.com.sa			P: +97125996677 e: smarashda@saz.gcaa.ae		
IA-1	National Regulation, Staffing and Training	Has your State promulgated National regulations for the implementation of ATFM? (Ref. An. 11, Chapter 3, Para 3.7.5 and Doc 4444, Chapter 3, Para 3.2)	Implemented	Implemented	Not Implemented					Implemented	Not Implemented	Implemented	Implemented			Not Implemented		
IA-2		Has your State developed national ATFM procedure to meet the ICAO MID ATFM Plan (Doc 014) Part I Phase IA Para 5.5?	Implemented	Not Implemented	Not Implemented	Implemented					Implemented	Implemented	Implemented	Implemented			Not Implemented	
IA-3		Has your State/ANSP established an Organizational structure including ATFM posts? (in accordance with Doc 9971, Part II, Chapter 3, Para 3.1)	Implemented	Implemented	Not Implemented	Implemented					Not Implemented	Implemented	Implemented	Implemented			Not Implemented	
IA-4		Has your State/ANSP assigned/recruited staff (with clear Job Description) for provision of ATFM services?	Not Implemented	Implemented	Not Implemented	Implemented	partially				Not Implemented	Not Implemented	Implemented	Implemented			Not Implemented	
IA-5		Has your State/ ANSP conducted the required Training for ATFM Personnel? (Ref. MID Doc 014, Part I, Para 3.64 & 3.65 as well as Appendix J)	Not Implemented	Not Implemented	Not Implemented	Implemented					Not Implemented	Implemented	Implemented	Implemented			Not Implemented	
IA-6		Has your State/ANSP conducted awareness for ATM staff on the basics of ATFM and its connection with ATS units? (Ref. ICAO MID Doc 014, Part I, Appendix J, attachment C)	Implemented	Implemented	Not Implemented	Implemented					Not Implemented	Implemented	Implemented	Implemented			Implemented	
IA-7		Has your State/ANSP conducted workshops / training courses to introduce the basics of ATFM to external stakeholders including Airspace Users (AUs)?	Not Implemented	Not Implemented	Not Implemented	Implemented					Not Implemented	Implemented	Implemented	Implemented			Implemented	
IA-8	Demand analysis	Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at International Airports? (Ref. on ICAO MID Doc 014, Part I, Para 5.7)	Implemented	Implemented	Not Implemented	Not Implemented				Not Implemented	Implemented	Implemented	Implemented			Implemented		
IA-9		Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at TMA's? (Ref. based on ICAO MID Doc 014, Part I, Para 5.7)	Implemented	Implemented	Not Implemented	Not Implemented	partially				Not Implemented	Implemented	Implemented	Implemented			Implemented	
IA-10		Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at ACC Sectors? (Ref. based on ICAO MID Doc 014, Part I, Para 5.7)	Implemented	Implemented	Not Implemented	Implemented					Not Implemented	Implemented	Implemented	Not Implemented			Implemented	
IA-11		Has your State identified Airspaces (TMA, ACC sectors) or Airports where Air Traffic demand could exceed or expected to exceed the capacity of Air Traffic Services concerned? To be included in ATFM Programme.	Implemented	Implemented	Not Implemented	Implemented					Not Implemented	Implemented	Implemented	Implemented			Implemented	
IA-12	Capacity Calculations	Has your State/ANSP performed capacity calculation (strategic level) at international Airports?	Implemented	Not Implemented	Not Implemented	Implemented	not implemented			Not Implemented	Not Implemented	Implemented	Implemented			Implemented		
IA-13		Has your State/ANSP performed capacity calculation (strategic level) at TMA(s)?	Implemented	Not Implemented	Not Implemented	Not Implemented	not implemented				Not Implemented	Not Implemented	Implemented	Implemented			Implemented	
IA-14		Has your State/ANSP performed capacity calculation (strategic level) at ACC sectors/ATS route segment(s)?	Implemented	Implemented	Not Implemented	Implemented	not implemented				Not Implemented	Implemented	Implemented	Implemented			Implemented	
IA-15	Capacity Calculations	Has your State/ANSP performed a regular (bi-annual, quarterly, monthly...) analysis of traffic demand at international Airports? (Ref. on ICAO MID Doc 014, Part I, Para 5.6)	Implemented	Implemented	Not Implemented	Not Implemented				Not Implemented	Implemented	Implemented	Implemented			Implemented		
IA-16		Has your State/ANSP performed a regular (bi-annual, quarterly, monthly...) analysis of traffic demand at TMA(s)? (Ref. on ICAO MID Doc 014, Part I, Para 5.6)	Implemented	Implemented	Not Implemented	Not Implemented	implemented				Not Implemented	Not Implemented	Implemented	Implemented			Implemented	
IA-17		Does your State/ANSP developed procedure to collect, analyze and disseminate constraints at the identified Airport(s) and TMA's related to capacity, Weather, equipment outage, Runway closure and other operational issues?	Implemented	Not Implemented	Not Implemented	Implemented					Not Implemented	Implemented	Implemented	Implemented			Not Implemented	

Total replied	Total (National Regulation, Staffing and Training)	Total (Demand analysis)	Total (Capacity Calculations)	Total (Measures at Airports and TMA)	Total (Measures at ACC Sectors)	Total (Supporting tools)	Total (Airspace enhancements)	Total (ADP & ATFM measures)									
377	69	40	30	80	69	30	40	19									
Total implemented	% Implemented	% Implemented	% Implemented	% Implemented	% Implemented	% Implemented	% Implemented	% Implemented	%	%							
213	56.5	37	53.6	25	62.5	16	53.3	36	45.0	35	50.7	19	63.3	37	92.5	8	42.1
Total not implemented	Not implemented	Not implemented	Not implemented	Not implemented	Not implemented	Not implemented	Not implemented	Not implemented									
164	32	15	14	44	34	11	3	11									
Bahrain	Iran	Iraq	Kuwait	Qatar	UAE	Oman	Saudi Arabia	Jordan	Egypt	Average in each area							
National Regulation, Staffing and Training																	
7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented							
4	0	6	2	7	2	5	7	0	4	0							
%	%	%	%	%	%	%	%	%	%	%							
57.1	0	85.7	28.6	100	28.6	71.4	100	0	57.1	0							
Demand analysis																	
4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented							
4	0	2	0	4	4	4	3	0	4	4							
%	%	%	%	%	%	%	%	%	%	%							
100	0	50	0	100	100	100	75	0	100	100							
Capacity Calculations																	
3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented							
3	0	2	0	3	3	1	3	0	1	0							
%	%	%	%	%	%	%	%	%	%	%							
100	0	66.7	0	100	100	33.3	100	0	33.3	0							
Measures at Airports and TMA																	
8 Implemented	8 Implemented	8 Implemented	8 Implemented	8 Implemented	8 Implemented	8 Implemented	8 Implemented	8 Implemented	8 Implemented	8 Implemented							
5	0	3	0	8	3	4	5	4	4	4							
%	%	%	%	%	%	%	%	%	%	%							
62.5	0	37.5	0	100	37.5	50	62.5	50	50	50							
Measures at ACC Sectors																	
7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented	7 Implemented							
6	0	5	0	5	5	5	4	2	3	3							
%	%	%	%	%	%	%	%	%	%	%							
85.7	0	71.4	0	71.4	71.4	71.4	57.1	28.6	42.9	42.9							
Supporting tools																	
3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented	3 Implemented							
2	0	3	3	3	1	2	2	2	2	2							
%	%	%	%	%	%	%	%	%	%	%							
66.7	0	66.7	100	100	33.3	66.7	66.7	66.7	66.7	66.7							
Airspace enhancements																	
4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented	4 Implemented							
4	3	4	3	4	4	4	4	4	3	3							
%	%	%	%	%	%	%	%	%	%	%							
100	75	100	75	100	100	100	100	100	75	75							
ADP and ATFM measures																	
2 Implemented	2 Implemented	2 Implemented	2 Implemented	2 Implemented	2 Implemented	2 Implemented	2 Implemented	2 Implemented	2 Implemented	2 Implemented							
0	0	2	1	2	1	0	1	0	1	1							
%	%	%	%	%	%	%	%	%	%	%							
0	0	100	50	100	50	0	50	0	50	50							
Overall MID states implementation																	
73.7	7.9	68.4	23.7	94.7	60.5	65.8	76.3	31.6	57.9	56.5							