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MID ATFM Task Force Update to ATM SG5

Hamad Al Belushi Chairman - MID ATFM Task Force

ATM SG/5 (Aqaba, Jordan, 1-4 December 2019)

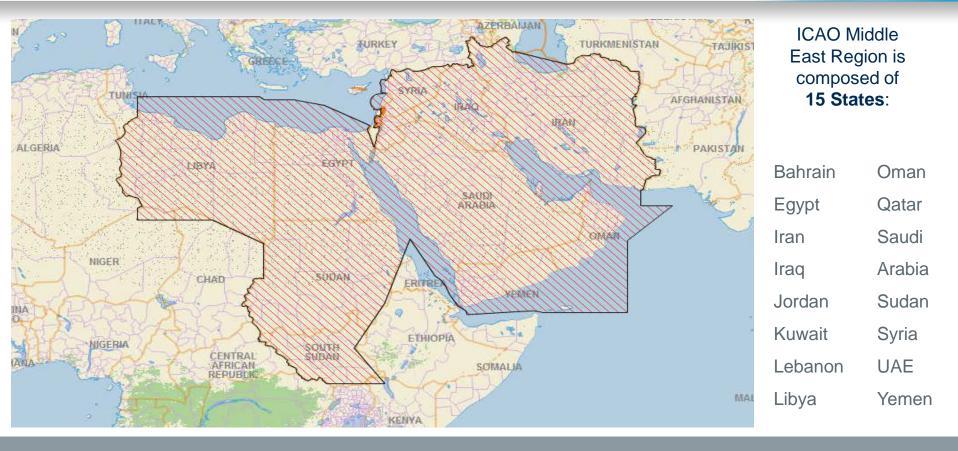


Why ATFM is needed in the MID Region?



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ATFM TF Meetings

- The First Meeting of the Air Traffic Flow Management Task Force (ATFM TF/1) was successfully held in Muscat, Oman, 23 - 25 September 2018. The meeting was gratefully hosted by the Public Authority for Civil Aviation (PACA), Oman.
- The ATFM TF/2 was successfully held in Casablanca, Morocco, 19 20 March 2019. The meeting was gratefully hosted by the Arab Civil Aviation Organization (ACAO).
- The Meeting supported the recommendations emanating from the ACAO/ICAO ATFM Workshop (Casablanca, Morocco, 17 – 18 March 2019) held-back-to-back with the ATFM TF/2 meeting
- The ATFM TF and FWC2022 TF meetings are being neld back-to-back



Where do we stand Now?

The ATFM TF/1 meeting established the ATFM Core Team composed of volunteer experts from Bahrain, India, Oman, Qatar, Saudi Arabia, UAE (ATFM TF Chairman), USA, ACAO, AEROTHAI, CANSO, EUROCONTROL, IATA and ICAO to carry out the tasks assigned by the ATFM Task Force that include but are not limited to:

- 1. Carry out a survey to assess the status of the MID Region related to ATM/ATFM capabilities, airspace, sectors and airports capacity, etc.
- 2. Carry out teleconferences with States' ATFM focal points to explore their views and thoughts related to ATFM taking into`set of data that should be exchanged and explore means that would be used for the exchange of data including the development of a common template.
- 3. Prepare an initial draft ATFM CONOPS.



- 4. Develop guidance as required to support States addressing issues related mainly to:
 - a) aerodromes and airspace capacities;
 - b) regular review for aerodromes and airspaces where traffic demand is expected to reach capacity, or is resulting in traffic congestion;
 - c) compliance by airspace users with ATFM measures
 - d) any other guidance relevant to the regional ATFM Framework
 - e) mechanisms for ATFM data gathering, collation and sharing between States, Organizations and ICAO
- 5. Develop a Template to support States with the development of National ATFM Implementation Plan.



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ATFM Core Team Members

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Main Outcome of ATFM TF based on the Core Team work that was supported by MIDANPIRG/17

- The meeting reviewed the responses to the survey received from 10 States.
- It was recognized that the MID Region is still in the first steps related to the establishment of ATFM capabilities.
- It was recommended that qualification of experts in ATFM as well as raising awareness should be given high priority.
- The meeting agreed to a set of criteria to be used for the <u>evaluation of the scenarios</u> based on the severity of the challenge to achieve the criteria as well as its weight/importance on the success of the scenario.
- The meeting emphasised that establishing a centralised ATFM Unit would be the optimal solution followed by the scenario of having 2 Centres for 2 participating areas, then a centralised scenario through a third party providing the ATFM service and the last one would the Multi-Nodal. However, considering the challenges, feasibility and time and efforts required, the Multi Nodal Scenario achieved the highest Score
- MIDANPIRG/17 agreed that Multi Nodal Scenario to be implemented as an initial start



High level outline to be considered during the development of the CONOPS

Phase I- Building State's National ATFM Capabilities

- 1. Raising awareness related to ATFM
- 2. Establishing the regulatory framework for ATFM at national level
- 3. Establishment of ATFM Services within the ATS organizational structure (FOC, FMP, FMU, etc.)
- 4. Human resources
- 5. Training
- 6. Operating Procedures
- 7. National ATFM Team to ensure Collaborative Decision Making (CDM)
- 8. Tools to be used
- 9. Determine and declare Airspace and airports capacity
- 10. Establishment of State's National ATFM CONOPS



High level outline to be considered during the development of the CONOPS

<u>Phase II – Establishment of Regional Framework</u>

- 1- Setting up the concept/framework for Cross border ATFM in the MID Region
- 2- Define which ATFM Measures would be required including GDPs (where applicable to be defined by States)
- 3- Agreement on the Format of the ATFM Messages
- 4- Means to be used for Communication between adjacent States ATFM FOC
- 5- Development of Common Operating Procedure (COP)
- 6- Agreement on LoA template for ATFM (App G of ATS LoA Template)
- 7- Agreement on the coordination procedures
- 8- Signature of LoAs between adjacent ATFM FOC
- 9- Establishment of platform to be used for sharing of information



High level outline to be considered during the development of the CONOPS

Phase III- Implementation of Cross border ATFM

- 1- Exchange of information through the established platform and/or periodic daily teleconferences
- 2- Sharing of the ATFM Daily Plan
- 3- Implementation of the ATFM/CDM process for regulating traffic when required (regional and later inter-regional)
- 4- Post Implementation Review
- 5- Research and future development





Action by the meeting

The meeting is invited to:

- a) commend the work carried out till today by all the experts supporting the ATFM TF and the ATFM Core Team
- b) encourage States and Organisations to implement the Recommendations of the ATFM Workshop held in Casablanca at <u>Appendix</u> A and continue their collaboration and provide further support in order to prepare the MID Region to accommodate the significant increase of traffic due to the FIFA World Cup 2022 or any other major events in a safe and efficient manner; review the ATFM Action Plan at <u>Appendix</u> B; and
- c) urge States to take necessary measures to ensure the establishment of ATFM service at the national level, including the promulgation of the required regulations, organisational structure, human and financial resources, training, etc.



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ACAO/ICAO ATFM Workshop (Casablanca, Morocco, 17 – 18 March 2019)

The main objectives of the ACAO/ICAO ATFM Workshop (Casablanca, Morocco, 17 – 18 March 2019) were to is to raise awareness about ATFM, share other ICAO Regions and States' experience as well as discuss and agree on recommendations for the implementation of ATFM in the MID Region based on the work carried out by the ATFM Core Team.

The Workshop recognized that:

- a regional solution to manage the traffic flow across the MID Region became a priority.
- collaboration between all stakeholders is a key success for effective development and implementation of regional framework for ATFM/CDM.
- development of ATFM Concept of Operations requires inputs/data from all stakeholders to ensure it meet the projected objectives.
- sharing information is the most important enabler for ATFM/CDM.

The Workshop agreed to the following Recommendations

1. States and Stakeholders are encouraged to support ACAO and ICAO efforts related to the implementation of ATFM/CDM and in particular the work of the MIDANPIRG ATFM Task Force related to the Development of ATFM Concept of Operations for the MID Region taking into consideration other experiences.

States are encouraged to:

2. establish ATFM framework at the national level (regulations, organizational structure, functions, operating procedures, etc.)

3. develop ATFM National Implementation Plan

4. ensure that ATFM personnel are trained and qualified to effectively carry out their tasks. ATFM Manager (decision maker) should have adequate ATC experience.

5. carry out necessary studies to determine airspace and airports capacities

6. exhaust all measures that would increase capacity and continue working on the airspace improvements and the enhancement of the air navigation services within their relevant FIRs taking into consideration the airspace users' requirements.

7. support the implementation of the IFPS at regional level

8. ensure the implementation of the Collaboration Decision Making (CDM) concept.

9. support flight data exchange for the management and monitoring of air traffic flow at regional and inter-regional levels

ATFM TF is invited to:

10. develop a training programme template to be used by States.

- 11. develop a Template for National ATFM Implementation Plan
- 12. support States in carrying out their airspace and sector capacity studies

ACAO and ICAO, supported by ATFM experts as required, are invited to:

- 13. organize workshops and training courses related to ATFM.
- 14. conduct visits to States to support the ATFM Implementation.

ACTION PLAN FOR IMPLEMENTATION OF ATFM IN THE MID REGION
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Key Activities	Action		Target	Deliverable	Champion	Supported by	Status/RMK
	No	Description	date	Deliverable	-	Supported by	
Key Activity 1	1.	Recommending the best Scenario for a	20 Mar	Recommendation	ATFM TF/2		Completed
Agreement on		regional ATFM framework	2019		meeting		
the ATFM Regional	2.	Presentation to the ACAO ANC/40	21 Mar 2019	Support	ACAO		Completed
Framework				N/D			G 1 1
	3.	Preparing a Working Paper to MIDANPIRG/17	30 Mar 2019	WP	Secretariat	Chairman	Completed
	4.	Agreement on the regional ATFM framework by MIDANPIRG	18 Apr 2019	MIDANPIRG Conclusion	MIDANPIRG/17	Secretariat	Completed
	5.	Presentation to the ACAO Executive Council	28-29 Apr 2019	For support	ACAO		Completed
	6.	Notifying States about MIDANPIRG/17 Conclusion and that the development of ATFM CONOPS started	30 Apr 2019	State Letter	ICAO	Chairman	
Key Activity 2 Development of Draft CONOPS	7.	Development of a Draft ATFM CONOPS	10 Jul 2019	Draft ATFM CONOPS	ATFM Core Team		
	8.	Circulating the Draft ATFM CONOPS to States	15 Jul 2019	State Letter	ICAO	ACAO	
	9.	Feedback form States on the Draft ATFM CONOPS	15 Aug 2019	Feedback	States		
	10.	Consolidation of the Draft ATFM CONOPS for presentation to the ATM SG/5 meeting	30 Aug 2019	Consolidated version of ATFM CONOPS	Secretariat	Chairman ATFM Core Team	
	11.	Agreement on the Draft ATFM CONOPS	11 Sep 2019	Draft ATFM CONOPS	ATM SG/5		
	12.	Circulating the Draft ATFM CONOPS	25 Sep 2019	State Letter	ICAO	ACAO	
	13.	Presentation to DGCA-MID/5	Nov 2019	For Info and Support	ICAO		
	14.	Presentation to ACAO Executive Council	Dec 2019	For Info and Support	ACAO		
Key Activity 3 Development of ATFM Regional Framework and	15.	Development of Initial Draft ATFM Regional Framework and draft ATFM Common Operating Procedures	31 Dec 2019	Initial Draft ATFM Regional Framework and draft Common Operating Procedures	ATFM Core Team	Face-to-face meeting(s) might be required	

draft Common Operating Procedures based on the	16.	Agreement on the Draft Regional Framework and draft Common Operating Procedures	13 Jan 2020	Draft ATFM Regional Framework and draft Common Operating Procedures	ATFM TF/3 meeting (12-13 Jan 2020)	1910	
agreed CONOPS	17.	Circulating the Draft Regional Framework and draft Common Operating Procedures to States	20 Jan 2020	State Letter	ICAO	ACAO	
	18.	Feedback form States on the Draft ATFM Regional Framework and draft Common Operating Procedures	10 Mar 2020	Feedback	States		
	19.	Consolidation of a Draft Regional Framework and draft Common Operating Procedures for presentation to the MSG/7 meeting	25 March 2020	Consolidated version of Draft ATFM Regional Framework and draft Common Operating Procedures	Secretariat	Chairman ATFM Core Team	
	20.	Presentation to ACAO Executive Council	Apr 2020	For Info and Support	ACAO		
	21.	Endorsement of the ATFM CONOPS, Regional Framework and Common Operating Procedures including agreement on a roadmap for the implementation	17 Jun 2020	ATFM CONOPS, Regional Framework and Common Operating Procedures	MSG/7 (15-17 Jun 2020)		
	22.	Circulation of the CONOPS, Regional Framework and Common Operating Procedures and posting them on the ICAO MID Website	30 Jun 2020	State Letter	ICAO	ACAO	
	23.	Presentation to ACAO Executive Council	Dec 2020	For Info and Support	ACAO		
Key Activity 4 Implementation of the MID ATFM Regional	24.	Implementation of the MID ATFM Regional Framework and Common Operating Procedures	Cont.	Implementation of ATFM Regional Framework and Common Operating Procedures	States		
Framework and Common Operating Procedures based on the agreed CONOPS	25.	Implementation of ATFM framework at national level	Cont.	National ATFM framework	States		

Key Activity 5	26.	Post implementation review	Each 3	Post Implementation	ATFM Core	
Post			months	review	Team	
Implementation	27.	Improvement of the ATFM Regional	TBD	Proposal for improved	ATFM TF	ATFM Core
Review of the		Framework and Common Operating	2021	ATFM Regional		Team
MID ATFM		Procedures		Framework and Common		
Regional				Operating Procedures		
Framework	28.	Review and continuous improvement of the	TBD	Continuous improvement	ATFM TF	ATFM Core
		ATFM Implementation in the MID Region				Team
		with consideration of establishment of				
		centralized ATFM system for the MID Region				
Key Activity 6	1.	Development of Training Programme	31 Dec	Training Programme	ATFM TF /	
Training and		Template for qualifying ATFM Specialist	2019	Template for ATFM	ATFM Core	
raising				Specialist	Team	
awareness	2.	Development of working arrangement for the	31 Dec	working arrangement for	ATFM TF /	
related to		ATFM Visits to States that would include	2019	the ATFM Visits	ATFM Core	
ATFM		ATFM Workshop and/or training courses			Team	
	3.	Organizing an ATFM Workshop with the	21-23	A-CDM/ATFM Workshop	ICAO/ACAO	ATFM TF
		planned A-CDM Workshop	Oct			
			2019			
	4.	Organizing of ATFM Training Courses	TBD	ATFM Training Courses	ICAO/ACAO	TBD
			2020/			
			2021			
	5.	Conduct ATFM Support visits to States	TBD	ATFM Support visits	ATFM support	TBD
		**	2020/	**	Team	
			2021			
	6.	Conduct familiarization visits to CADENA,	TBD	ATFM Familiarization	ACAO	
		Singapore, India, EUROCONTROL, FAA,		Visits	ICAO	
		etc.				

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