

International Civil Aviation Organization

MIDANPIRG Air Traffic Flow Management Task Force



Second Meeting (ATFM TF/2) (Casablanca, Morocco, 19 - 20 March 2019)

Agenda Item 2: Regional ATFM Framework

OUTCOME OF THE FIRST MEETING OF THE ATFM CORE TEAM

(Presented by the Secretariat)

SUMMARY

The aim of this paper is to review the outcome the First meeting of the ATFM Core Team for appropriate action by the meeting.

Action by the meeting is at paragraph 2.

REFERENCES

- ATFM Core Team/1 Summary of Discussions

1. Introduction

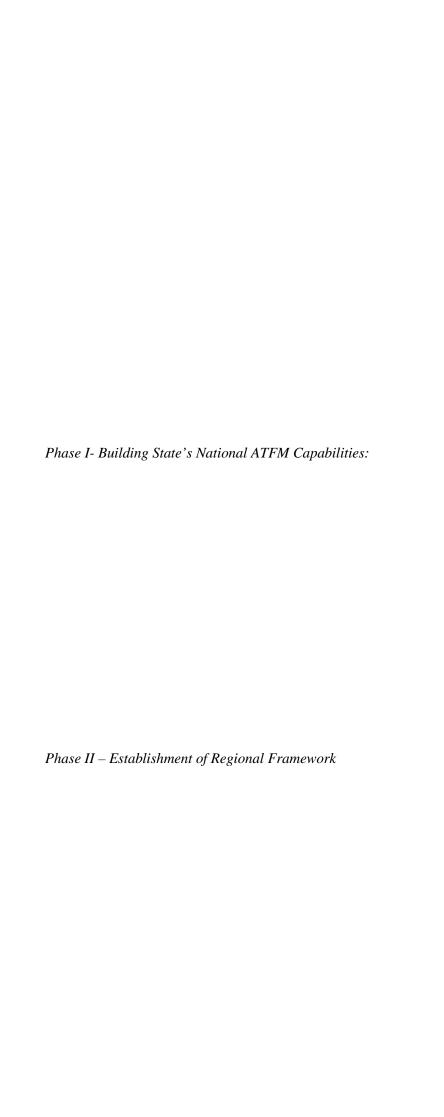
1.1 The First Meeting of the MIDANPIRG ATFM Core Team (ACT/1) was thankfully hosted by the General Civil Aviation Authority – UAE at Sheikh Zayed Air Navigation Centre in Abu Dhabi, UAE, from 22 to 24 January 2019.

2. ACTION BY THE MEETING

2.1 The meeting is invited to review the Summary of Discussions of the ATFM Core Team/1 meeting at **Appendix A** and take action as appropriate.



Abu Dhabi, UAE, 22 - 24 January 2019)



		Respo	onses of the ATFM	Questionnaire (N	lovember 2018)			
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Estimate Over Border	
OSTT, OEJN, HECC, LLLL,	
ORBB	

ı							

		5								
		3								
27. When determining an ATFM										
Measure, are the following factors										
considered?										
						ĺ				
									□ Arrivals: o Runway	
									throughput and	
									airborne delay	
31. What are the primary demand-capacity imbalance reasons for the	Airport capacity		NO			OOMS		OEJN, OERK, OEMA, OEDF and	OMDB	
ATFM Measures?								OEAB		
	Sector capacity	East High, Central,	YES			Central sector	YES	ACC-West, ACC-		
		North - demand exceeds capacity;						northeast upper and lower		
		1 37								
	Route/Airway capacity		NO				YES	L604, L677,		
						NADSO and LALDO B525		L550& UL768		
	0.1		NO.			NADSO				
	Other Comments		NO procedure includes							
	Comments		the formula							
22 Door wow State initiate it	Miles in tenil (MIT)	OMAE		NO	VEC	OMAE	NO	VES	OOMM OUV	
32. Does your State initiate the following ATFM Measures with	Miles-in-trail (MIT)	 OMAE	 YES	NO	YES	OMAE	NU	YES	 OOMM, OIIX, OBBB	
adjacent FIRs?	Minutes-in-trail	NO	YES	NO	YES	OMAE	NO	YES. Muscat,	OEJD	
	(MINIT)					ĺ		Bahrain, Cairo, Jordan, Khartoum,		
						ĺ		Sanaa and		
						ĺ		Doha		
	Speed restrictions	NO	YES	NO	YES	OMAE	NO	YES	OOMM, OIIX,	
	Airborne Holding	NO	NO	NO	YES		NO	YES	OBBB, OEJD OOMM, OIIX,	
									OBBB, OEJD	
	Fix balancing	 NO	NO	NO	NO		NO	NO	OOMM, OIIX,	
	Altitude/Flight Level	OMAE, OKAC	NO	NO	NO		NO	YES. AMMAN,	OBBB, OEJD OIIX, OOMM	
	capping	, =====				ĺ		DOHA,	,	
						ĺ		BAHRAIN, KUWAIT &		
								CAIRO		
	Alternative routing options	NO	NO	NO	NO	OMAE	NO	YES	OBBB, OEJD, OOMM	
•	ορασιιδ					1	1		OOMINI	

	Question		Bahrain	Egypt	Jordan	Kuwait	Lebanon	Oman	Qatar	Saudi Arabia	Sudan	UAE	
	Fix crossing times		NO			NO				YES		OOMM, OEJD	
	Airport slot		NO			NO	NO			YES		NO	
	Minimum departure intervals (MDIs)	Ν	NO		NO	NO	YES		NO	YES		OOMM, OIIX	
	Published, pre-defined	1	NO		NO	NO			NO	YES		NO	
	alternative routes												
	Ground delay program	N	NO		NO	NO			NO	YES		OOMM, OEJD	
	(GDP) – airport arrival												
	constraint		OMAE, OEJD,		NO	NO			NO	YES		OOMM, OIIX,	
	Ground stop (GSt)		OMAE, OEJD, OKAC		NO	NO			NO	1ES		OOMM, OHA, OBBB, OEJD	
	Ground delay program		NO		NO	NO			NO	YES		NO	
	(GDP) – airspace constraint (also known												
	as airspace flow												
22 W	program: AFP)	*			D 1			A TROOT 11 1				D 15 1	
33. What is taken into consideration when an ATFM			Volume and sector capacity, weather,		Delay action/holding/mile			ATCO workload, traffic		 Reduction of ATCOs workload 		Demand Exceeds capacity, Weather,	
Measure is implemented			outages		s in trail/minutes in			demand/sector		to ensure the safe		Military Exercises,	
					trail			capacity, Airspace		provision of ATS;		Resources,	
								complexity and		• Reduction of		Maintenance/	
								weather.		congestion and operating costs		Outages, Vip movements	
										1			
34. How is the duration of the		7	Tactical decision		Regional			The duration of the	By traffic levels	Declared capacity		Sector and	
selected ATFM Measure			based on real-time		coordination.		ĺ	selected ATFM		will be the main		aerodrome	
determined?			information					Measure is		factor that is		forecast, as well as	
								determined based		considered in the		duration	
								on extent of over demand		application of ATFM measures.		requirements by accepting unit	
								demand		When the capacity		decepting unit	
										is reached, ATFM			
										measures are			
										applied until the capacity is			
										exceeding the			
										demand by			
										at least 10%. Therefore, the			
										timing will vary			
										demanding on the			
										level of traffic			
35. Does your ANSP carry out any		Ν	NO		NA			-		SANS are using		YES	
post-operations analysis?								any post-		the post-analysis to			
								operations analysis using the flexible		determine the bottleneck, Peak			
								statistical tools to		hour, congested			
								generate report on		airway, waypoint			
								the metrics		and congested			
										aerodrome. This practice will			
										improve enhance			
										with the			
							ĺ			implementation of activation of			
26 77					NO.					ATCEM section			
36. How is the effectiveness of the ATFM Measure analyzed?		ľ	NA		NO			The use of flexible statistical tools to		Refer to question number 30		Departures: o Monthly DST	
ATTIVI IVICASUTE allatyzeu?]							effectively analyze		number 30		Compliance and	
								and report on the				Ground delay	
							ĺ	metrics				☐ Arrivals:	
												o Runway throughput and	
							ĺ					airborne delay	
37. Are the ATFM Measures		Y	YES		NO	NO		Operational LoA		No, it will be		YES	
included in LOAs?								with UAE ACC,		included in the			
								Appendix G : Air Traffic Flow		ATM operation manual and later			
								Management		on LoA		<u> </u>	
	Miles in trail		Automated and verbal with OKAC,		Verbal		Verbal	Verbal OMAE		Verbal: Muscat,		Verbal	
		_	worked with OKAC				I	I		Bahrain, Cairo,			
ATFM Measures through automated or verbal communication with	1									Iordan Khartoum			
or verbal communication with			OEJD, OMAE							Jordan, Khartoum, Kuwait,			
or verbal communication with adjacent FIRs?	Speed restrictions				Verbal		Verbal	Verbal OMAE		Jordan, Khartoum, Kuwait,		Verbal	

A-7

	Question	Bahrain	Egypt	Jordan	Kuwait	Lebanon	Oman	Qatar	Saudi Arabia	Sudan	UAE	
L L	Holding			Verbal		Verbal			Verbal: Muscat,		Verbal	
1									Bahrain, Cairo,			
									Jordan, Khartoum,			
									Kuwait,			
									Sanaa and Doha			
	Altitude			Verbal		Verbal	Verbal OMAE		Verbal: Muscat,		Verbal	
									Bahrain, Cairo,			
									Jordan, Khartoum,			
									Kuwait,			
									Sanaa and Doha			
	Fix crossing times			Verbal		Verbal	Verbal OMAE		Verbal: Muscat,		Verbal	
									Bahrain, Cairo,			
									Jordan, Khartoum,			
									Kuwait, Sanaa and Doha			
									Sanaa and Dona			
	Airport arrival times			Verbal					Verbal: Muscat,		Verbal	
									Bahrain, Cairo,			
									Jordan, Khartoum, Kuwait,			
									Sanaa and Doha			
									Suna and Bona			
	Ground delay programs			Verbal					Verbal: Muscat,		Verbal	
1	airport arrivalconstraint								Bahrain, Cairo,			
1	CONSTRUIT								Jordan, Khartoum, Kuwait,			
									Sanaa and Doha			
	Ground stops	Verbal		Verbal					Verbal: Muscat,		Verbal	
									Bahrain, Cairo, Jordan, Khartoum,	l		
									Kuwait,			
									Sanaa and Doha			
	Ground delay program –			Verbal					Verbal: Muscat,		Verbal	
	airspace constraint								Bahrain, Cairo, Jordan, Khartoum,			
									Kuwait,			
									Sanaa and Doha			
	Comments	Miles in trail by NOT AM		Verbal								
		NOT AM										
		11017111										
39. If your State have future				NA								
ATFM initiatives planned with	Initiative Title	NA		NA			Regional ATFM			Waiting for	Cross Border	
39. If your State have future ATFM initiatives planned with other FIRs please list them below.	Initiative Title			NA			Regional ATFM Implementation			regional initiatives	Cross Border Arrival	
ATFM initiatives planned with	Initiative Title			NA			Implementation with MID Member			regional initiatives	Arrival Management (X-	
ATFM initiatives planned with other FIRs please list them below.				NA			Implementation			regional initiatives	Arrival Management (X- MAN)	
ATFM initiatives planned with other FIRs please list them below.	Initiative Title Primary Functions			NA			Implementation with MID Member			regional initiatives	Arrival Management (X- MAN) Absorb delay en-	
ATFM initiatives planned with other FIRs please list them below.				NA			Implementation with MID Member			regional initiatives	Arrival Management (X- MAN)	
ATFM initiatives planned with other FIRs please list them below.	Primary Functions Status (Planning, Approved,			NA			Implementation with MID Member States			regional initiatives	Arrival Management (X- MAN) Absorb delay en- route	
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ATFM initiatives planned with other FIRs please list them below.	Primary Functions Status (Planning, Approved, Implementation, Testing)			NA			Implementation with MID Member States Planning			regional initiatives	Arrival Management (X- MAN) Absorb delay en- route Planning	
ATFM initiatives planned with other FIRs please list them below.	Primary Functions Status (Planning, Approved, Implementation, Testing) Initial Operational			NA			Implementation with MID Member States			regional initiatives	Arrival Management (X- MAN) Absorb delay en- route	
ATFM initiatives planned with other FIRs please list them below.	Primary Functions Status (Planning, Approved, Implementation, Testing) Initial Operational Capability Date Full Operational			NA			Implementation with MID Member States Planning			regional initiatives	Arrival Management (X- MAN) Absorb delay en- route Planning	
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	Question	Bahrain	Egypt	Jordan	Kuwait	Lebanon	Oman	Qatar	Saudi Arabia	Sudan	UAE	
ATFM initiatives planned, please list them below.	Initiative Title						CDM EXCHANGE OF DATA with UAE			Waiting for	Airport CDM and Departure Manager	
	Primary Functions								Re-structuration of		Collaborative	
									the whole airspace and implementation of ATFM system		Departure Sequencing	
	Status (Planning, Approved, Implementation, Testing)						Planning		Planning/Tenderin g		Testing	
	Initial Operational Capability Date								2022		Q4 2018	
	Full Operational								2023		Q2 2021	
	capability Date Comments	Bahrain is in the					<u> </u>					
		process of building a new FIC and implementing a new ATM system which will include integration of ATFM functionality such as SWIM capabilities, AMAN/DMAN. Est. completion mid 2020.										
				NO								
	Initiative Title						CDM EXCHANGE OF DATA with UAE		plan processing system	Waiting for regional initiatives		
	Primary Functions								Exchange ATS service massages and FPL			
	Status (Planning, Approved, Implementation, Testing)						Planning		In progress, designing phase			
	Initial Operational Capability Date								Q4/2019			
	Full Operational capability Date								Q2/2020			
41. ICAO has identified various	 											
ATFM and CDM initiatives in the Aviation System Block Upgrades	B0- A-CDM Improved Airport Operations through Airport-CDM	End 2019 Planning/Coordinat ion completed. Design/config. In progress		Implemented		Planned	2019	Mid 2019	TBD		Q4 2020	
	B0-RSEQ Improved Traffic Flow through Runway Sequencing (AMAN/DMAN)	Partially Full by 2020		Not Implemented			2019	Mid 2019	Q3-2019		Implemented	

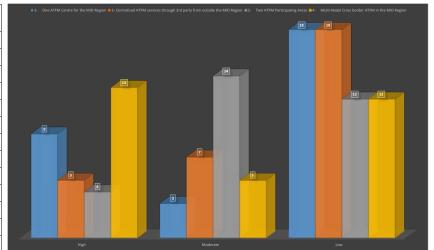
Question	Bahrain Eg	ypt Jordan Ku	wait Lebanon	Oman	Qatar Saudi Arabia	Sudan UAE
B0-FICE Increased	Partially Full by	Planning no date	Planned	2019	End of 2019	Implemented
Interoperability,	2021				AMHS	
Efficiency and Capacity					capability	
through Ground-					End of 2019 AIDC/ OLDI	
Ground Integration					capability	
					end 2019	
B0-DATM Service	Implemented	in the process	Planned	2020		Immlemented
Improvement through	Implemented	in the process	Pranned	2020	Ongoing. Ref questionnaire	Implemented
Digital Aeronautical					questionnaire	
Information						
Management						
B0-FRTO Improved	Partially Full by	Implemented	Planned	2019	Ongoing. Ref	Q4 2020
Operations through	2020				questionnaire	
Enhanced En-Route	Current status: Pre					
Trajectories	Tactical basis					
B0-NOPS Improved	Partially	NO	Planned	2020	2022	Q4 2022
Flow Performance	Established ATFM		1 familed	2020	2022	QT 2022
through Planning based	measures				l l	
on a Network-Wide					l l	
view	1					
B1- A-CDM Optimized	End 2019	NO		2020	TBD	Q2 2021
Airport Operations					[]	
through A-CDM Total						
Airport Management	1					
D1 DSEO L	D-ski-11-, C 11.1	NO		2010	2021	02.2021
B1-RSEQ Improved	Partially full by	NO		2019	2021	Q2 2021
Airport operations	2020					
through Departure, Surface and Arrival	[
Surjace and Arrival Management		l l				
Management						
 	1					
B1-FICE Increased	Partially Full by	NO		2019	2020	Q2 2021
Interoperability,	2020					
Efficiency and Capacity through FF-ICE/1						
application before	l l					
Departure						
1	l l					
B1-DATM Service	Partially Full by	NO		2020	2021	Q2 2021
Improvement through	2020					
Integration of all					l l	
Digital ATM						
Information						
1						
1						
B1-SWIM Performance	2020	NO		2022	Q4 2020	Q2 2019
Improvement through					l l	
the application of					l l	
System Wide	l l					
Information Management (SWIM)	l l					
Management (SWIM)	1					
B1-NOPS Enhanced	Dependent on	NO		2022	2022	Q4 2022
Flow Performance	Regional	l l				
through Network	agreement				l l	1 1
Operational Planning	Planning phase					
DI AMETER I	2020	Orași		2022	0.4.2020	04.2020
B1-AMET Enhanced	2020	Ongoing		2022	Q4 2020	Q4 2020
Operational Decisions through Integrated	l l					
through integratea Meteorological					l l	
Information						
B1-TBO Improved	Partially by 2020	NO		2022	Q4 2020	Q4 2020
Traffic Synchronization						
and Initial Trajectory-						
		1	Ī			ı
Based Operation						

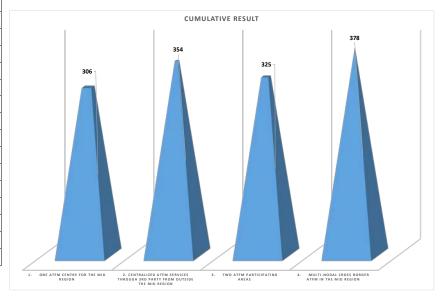
Scenarios for	MID Regional ATF	∕ I Framework

			scenarios for i	nio Regional A	ATFM Framewo
	Criteria/Advantages/Challenges	1- One ATFM Centre for the MID Region	2- Centralized ATFM services through 3rd party from outside the	3- Two ATFM Participating Areas	4- Multi-Nodal Cross border ATFM
1	Institutional Framework (legal, financial, funding mechanism, etc.)	3	3	4	5
2	Time required for the States to join the project (legal, Financial, etc.)	1	2	3	5
3	Political issues	1	1	3	5
4	Agreement on the Location	1	5	3	5
5	Funds required as a regional project (Centre) (cost)	3	1	2	5
6	Manpower (Centre)	3	5	1	5
7	Harmonized ATFM National procedures	5	3	4	3
8	Centralized Decision Making	5	5	4	2
9	Regional and cross regional coordination	5	5	4	2
10	Data Consistency/availability	5	5	4	3
11	Time needed for establishing the ATFM Framework	2	5	3	5
12	Third party could provide the service	5	5	5	0
13	Single system supplier and maintenance	5	2	3	0
14	Evolution process	5	3	4	3
15	Concentrated Team	5	5	3	2
16	Crisis management	5	5	4	4
17	Effective Airspace Management	5	5	3	2
18	Integration with regional IFPS	5	5	4	2
19	Stakeholders simplicity	5	5	3	2
20	Data collection that would be used by States	5	5	4	2
21	Centralized Post Assessment process	5	5	4	2
22	Support optimization of the use of the MID Region available airspace	5	3	4	3
23	Research and Development at regional level	5	5	5	2
24	States' willingness for Data Sharing with the ATFM Regional Centre(s) including Military Flights	2	2	2	5
25	Contingency Operations	1	5	5	5
26	local customization and integration systems	1	3	2	5
27	Common ATFM Messages Format	5	5	4	2
28	Compliance with ATFM Measures	5	5	3	2
29	Possibility of successful implementation	1	2	3	5
30	Timeframe to start operation	1	3	3	4
		306	354	325	378

Rating from 0 to 5 (5 is the best)

Weight (1 to 6)	1- One ATFM Centre for the MID Region	2- Centralized ATFM services through 3rd party from	3- Two ATFM Participating Areas	4- Multi- Nodal Cross border ATFM
6	18	18	24	30
6	6	12	18	30
6	6	6	18	30
6	6	30	18	30
6	18	6	12	30
4	12	20	4	20
3	15	9	12	9
3	15	15	12	6
3	15	15	12	6
3	15	15	12	9
4	8	20	12	20
2	10	10	10	0
2	10	4	6	0
2	10	6	8	6
2	10	10	6	4
2	10	10	8	8
2	10	10	6	4
2	10	10	8	4
3	15	15	9	6
2	10	10	8	4
2	10	10	8	4
2	10	6	8	6
2	10	10	10	4
6	12	12	12	30
3	3	15	15	15
1	1	3	2	5
2	10	10	8	4
2	10	10	6	4
6	6	12	18	30
5	5	15	15	20
100	306	354	325	378





LIST OF PARTICIPANTS

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Mr. David Edward Christmas	Bahrain	
Mr. Manjunath Krishna Nelli	India	
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Mr. Saleh Al Zahrani	Saudi Arabia	
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Mr. Mohammed Al Baloushi	UAE	
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Mr. Robert Roxbrough	USA/FAA	
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Mr. Keith Crawford	EUROCONTROL	
Mr. George Rhodes	IATA	
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Mr. Issa Al Rawahi	IATA	
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