



Agenda Item 5: Air Traffic Flow Management Implementation (ATFM) in the SAM Region

REVISION OF THE ATFM ACTION PLAN

(Presented by the Secretariat)

Summary	
This working paper proposes a revision of the progress reached in the action plan for ATFM implementation in airports and in the SAM Region airspace.	
References: <ul style="list-style-type: none">• Fifth Workshop/Meeting (SAM/IG/5) Report	
ICAO Strategic objectives	<i>A – Safety</i> <i>D – Efficiency</i>

1 Background

1.1 The SAM/IG workshops/meetings, among other matters, analysed matters related with ATFM implementation in the South American Region and the associated activities.

2 Discussion

2.1 From the discussions and exchange of views in ATFM matters, the SAM/IG/5 Meeting reviewed and updated such action plan.

2.2 In view that the ATFM action plan contemplates tasks in charge of defined persons responsible with compliance dates established, a periodical revision is necessary as a follow-up of the tasks complied by each one of the persons responsible designated by the Implementation Group. To this end, **Appendix A** to this working paper shows the tasks that have been complied according to the information available in the Secretariat. This analysis should be carried out taking also into account WP/02.

3 Suggested action

3.1 The meeting is invited to:

- a) Take note of the information provided; and
- b) Review the progress reached, and if appropriate, update the action plan for ATFM implementation in the SAM Region, shown in **Appendix A** to this working paper.

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APPENDIX A

ACTION PLAN FOR THE IMPLEMENTATION OF ATFM AT SAM AIRPORTS

A: AIRPORT				
Task description	Start	End	Responsible party (designate individual or organisation in charge)	Remarks
1. Airport demand/capacity analysis	Sep 2008	Apr 2010		
1.1 Prepare ATFM survey	N/A	Aug 2008	Project RLA/06/901 Regional Office	Completed
1.2 Send survey to the States of the Region	Aug 2008	SAM/IG/2	Regional Office	Completed
1.3 Analyse the methodology presented by Brazil for estimating airport capacity	June 2008	SAM/IG/2	ATFM/IG	Completed and analyzed through WP/08, WP/16.
1.4 Send response to survey	N/A	SAM/IG/2	States	Completed Except for French Guyana, Guyana, and Suriname.
1.5 Assess survey results	N/A	SAM/IG/3	ATFM/IG	Completed
1.6 Course offered by Brazil on Airport Capacity Estimate	Mar 2009	Mar 2009	Brazil	Completed The course was carried out from 23 – 27 March 2009, as planned
1.7 Development of the Methodology for the Calculation of Airport and Airspace Capacity in the SAM Region	Nov 2008	Jan 2009	Brazil and USA RLA/06/901	Completed Presented at SAM/IG/4
1.8 Carry out exercise of Calculation of Runway Capacity in the SAM Region as per the Course offered by Brazil	Sept 2009	SAM/IG/6	States	Valid Through Conclusion SAM/IG/4-5, the guidance material for the application of a common methodology for the calculation of airport and ATC sectors capacity was

A: AIRPORT				
Task description	Start	End	Responsible party (designate individual or organisation in charge)	Remarks
				approved. Bolivia, Brazil, Colombia, Paraguay, Peru and Venezuela presented their preliminary exercise.
1.9 Carry out Calculation of Airport and Airspace Capacity of main airports by States.	Sept 2009	SAM/IG/7	States	Valid Brazil, Paraguay and Peru presented the data.
1.10 Identify airports where periods exist where the demand is greater than existing capacity including simulations, if necessary, by States.	Sept/Oct 2009	SAM/IG/7	States	Valid Brazil, Paraguay and Peru presented the data.
1.11 Determine operational factors affecting airport demand and capacity to optimise utilisation of existing capacity, including simulations, is necessary.	Sept/Oct 2009	SAM/IG/7	States	Valid Brazil, Paraguay and Peru presented the data.
1.12 Present the conclusions on existing airport capacity	N/A	SAM/IG/7	States	Valid
2. Coordination with the ATM community				
2.1 Present initial AIC model	SAM/IG/2	SAM/IG/2	ATFM/IG	Completed
2.2 Publish initial AIC	SAM/IG/2	Next AIRAC date/2009 after SAM/IG/3	States	Completed
2.3 Promote seminars to the ATFM community, taking into account the CDM concept for ATFM implementation, and begin the relevant coordination		December 2010	States	On 29 to 31 March 2010, the First CDM Workshop was carried out in Rio de Janeiro, Brazil, with the participation of 27 experts. The second ATFM/CDM Workshop will be carried out in Rio de Janeiro during 26 and 27 November, 2010

A: AIRPORT				
Task description	Start	End	Responsible party (designate individual or organisation in charge)	Remarks
2.4 Inform the GREPECAS ATM Subgroup			N/A	The CNS/ATM/SG Meeting (Lima, Peru 15 to 19 March 2010) received information on the progress in the ATFM area up to date in the SAM Region (see 5.4)
3. Infrastructure and database		Aug 2008		Valid
3.1 Send the results of the survey developed by the hired expert to the Automation Group.		Dec 2008		Completed
3.2 Send to the Automation Group the information obtained by the expert hired on the data bases used in the Brazil, United States and Eurocontrol units	Jan 2009	TBD		Valid
3.3 Coordinate implementation activities with the Automation Group			ATFM/IG	Permanent
4. Policy, standards, and procedures			Nov 2008	
4.1 Hiring of an expert to draft the manuals on ATFM measures for airports and FMU and FMP procedures			N/A	Task included in 4.2
4.2 Hiring of an expert for the elaboration of the ATFM Manual		February 2009	Regional Office	Completed. Task developed from 6 to 17 July 2009
4.3 Detailed development of ATFM Manual chapters	Dec 2008	SAM/IG/5	Regional Office	Completed Approved partial draft, including ATFM concepts for airspace and airports at SAM/IG/2 Meeting. Presented at SAM/IG/4
4.4 Detailed development of the second part of ATFM Manual Chapters.	Dec 2009	Jun 2010	Regional Office (RLA/06/901)	Completed The ATFM Manual was analysed from 5-15 October,

A: AIRPORT				
Task description	Start	End	Responsible party (designate individual or organisation in charge)	Remarks
				with the assistance of experts from Colombia and Brazil and some changes were introduced, in order to improve its structure.
4.5 Present the model AIC Supplement		SAM/IG/6	ATFM/IG	Completed With the assistance of an expert from Peru, an AIP Supplement Model, to be used by States as reference, was prepared and developed (see SAM/IG/6 WP/08).
4.6 Approve the AIC Supplement		SAM/IG/6	ATFM/IG	Valid
4.7 Publish the AIP Supplements		AIRAC date prior to SAM/IG/7	States	Valid
5. Training				
5.1 Draft ATFM training plans and submit them		SAM/IG/7	States	Valid
5.2 Train the team on decision-making at airports		December 2010	States	Valid
5.3 Hiring of an expert to draft Manual on the Introduction to ATFM for the ATM Community		TBD	Regional Office	Completed The ATFM Manual was prepared and submitted to CNS/ATM/SG. Guidelines to inform ATM community on ATFM and

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Task description	Start	End	Responsible party (designate individual or organisation in charge)	Remarks
				CDM general concepts. These guides may be provided in courses, seminars or others.
5.4 Present and assess the Manual for the Introduction to ATFM for the ATM Community		SAM/IG/6	RLA/06/901	Completed Through the hiring of experts, the ATFM manual was developed. The CNS/ATM/SG Meeting adopted the manual for the CAR and SAM Regions. It has been planned to develop a second part of such manual.
5.5 Train the members of the ATM community in the CDM and ATFM concepts		TBD	States	Completed The ATFM SAM Course was held in Rio de Janeiro, Brazil, from 22 to 26 March, 18 experts participated and the holding of tele-conferences was agreed, same which started on 12 April with excellent results. The Second SAM ATFM Course will be held in Rio de Janeiro from 23 to 25 November 2010.
5.6 Train FMP/FMU staff for application of ATFM measures for airports		SAM/IG/7	States	Valid
5.7 Monitor the training of the ATM community		Jul 2010	States	Valid
6. Final implementation decision				

A: AIRPORT				
Task description	Start	End	Responsible party (designate individual or organisation in charge)	Remarks
6.1 Identify and review factors that may affect the implementation decision		SAM/IG/6	ATFM/IG	Valid
6.2 Declare the pre-operational implementation in the defined area			States	Valid
6.3 Declare the final operational implementation in the defined area			States	Valid
7. Monitor system performance	SAM/IG/7	SAM/IG/8		
7.1 Draft the ATFM post-implementation follow-up programme at airports	SAM/IG/6	SAM/IG/7	ATFM/IG	Valid
7.2 Implement the ATFM post-implementation follow-up programme at airports	SAM/IG/7	SAM/IG/9	TBD	Valid
Tentative pre-operational implementation date		N/A	Oct 2010	Valid
Tentative definitive implementation date		N/A	Dec 2011	Valid

Note:

E	States
SAM/IG	SAM Implementation Group
ATFM/IG	ATFM Implementation Group
OR	Regional Office

ACTION PLAN FOR ATFM IMPLEMENTATION IN THE SAM REGION				
B- AIRSPACE (ATC Sector)				
Task description	Start	End	Responsible party (designate individual or office in charge)	Remarks
1. Airspace demand and capacity analysis				
1.1 Analyse the methodology to estimate ATC sector airspace capacity presented by Brazil	Jun 2008	SAM/IG/2		Completed
1.2 Prepare an airspace demand survey	TBD	TBD		
1.3 Attend the course on Airspace Capacity Estimate (ATC Sector).	Mar 2009	States		Completed
1.4 Carry out the States estimate airspace ATC sector capacity at the major airports	Sept. 2009	SAM/IG/7		Valid
1.5. Identify airspace sectors where demand sometimes exceeds capacity, including simulations by the States, if necessary	TBD	TBD		
1.6 Identify factors affecting airspace demand and capacity in order to optimise the use of existing capacity, including simulations if necessary	TBD	TBD		
1.7 Present conclusions on the existing airspace capacity.	TBD			
2. Coordination with the ATM community	Sep 2008	Aug 2009		
2.1 Consider by the ATM community the implementation of ATFM in airspace	Sep 2008	Dec 2010		Valid
3. Infrastructure and database	TBD	Dec 2013		
3.1 Send requirements to the Automation Group, as stipulated in Appendix B of the ATFM CONOPS	TBD	TBD		Valid
3.2 Coordinate implementation activities with the Automation Group	N/A	Dec 2013		
4. Policy, standards, and procedures	TBD	Jun 2013		
4.1 Develop ATFM policies, taking into account the	TBD	TBD		

ACTION PLAN FOR ATFM IMPLEMENTATION IN THE SAM REGION				
B- AIRSPACE (ATC Sector)				
Task description	Start	End	Responsible party (designate individual or office in charge)	Remarks
objectives and principles established in the CAR/SAM ATFM CONOPS				
5. Training	TBD	May 2013		
5.1 Train the team on airspace data collection	Jun 2009	March 2011	States	Valid A first course was carried out in March 2009. A Second course on runway capacity and ATC sector will be held in Rio de Janeiro, Brazil, in March 2011.
5.2 Air Traffic Flow Management Course	Mar 2010	Nov 2010	Brazil	Valid Hosted by RP RLA/06/901. The Second ATFM Course will be held in Rio de Janeiro, Brazil, from 23 to 25 November 2010.
5.3 Train personnel in ATFM strategic measures for airspace	TBD	TBD		
5.4 Prepare plans and ATFM training material	TBD	TBD		
5.5 Conduct training of personnel involved.				
6. Final implementation decision	N/A	Sep 2013		Valid
6.1 Analyse factors affecting the implementation decision	N/A	TBD		
6.2 Declare pre-operational implementation in the area defined	N/A	TBD		
6.3 Declare definitive operational implementation in the area defined	N/A	TBD		

ACTION PLAN FOR ATFM IMPLEMENTATION IN THE SAM REGION				
B- AIRSPACE (ATC Sector)				
Task description	Start	End	Responsible party (designate individual or office in charge)	Remarks
7. Monitor system performance	TBD	N/A		
7.1 Draft ATFM post-implementation follow-up programme	TBD	Aug 2013		Valid
7.2 Implement ATFM post-implementation follow-up programme	Dec 2013	N/A		
Tentative pre-operational implementation date	N/A	Jul 2013		Valid
Tentative definitive implementation date	N/A	Dec 2013		Valid