



SAM/IG/3
WP/08
25/02/09

**International Civil Aviation Organization
South American Regional Office**

**THIRD WORKSHOP/MEETING OF THE SAM IMPLEMENTATION GROUP
(SAM/IG/3)
REGIONAL PROJECT RLA/06/901**

Lima, Peru, 20 to 24 April 2009

Agenda Item 5: Implementation of air traffic flow management (ATFM) in the SAM Region

ACTION PLAN FOR ATFM IMPLEMENTATION

(Presented by the Secretariat)

Summary

This working paper proposes the meeting to make a revision of the progress reached in the action plan to implement ATFM in airports of the SAM Region.

References:

- Second Workshop/Meeting of the SAM Implementation Group (SAM/IG/2), Lima, Peru, 3 to 7 November 2008
- Regional Project RLA/06/901.
- Action plan to implement ATFM in SAM Region airports

ICAO Strategic objectives

Strategic Objective C *Environmental Protection*

Strategic Objective D *Efficiency*

1 Background

1.1 SAM/IG/02 Meeting, among other matters analysed issues related with ATFM implementation in the SAM Region and the activities developed by the Expert hired under the auspices of Regional Project RLA/06/901.

1.2 The ATFM Questionnaire and corresponding replies received up to the date of the meeting; the SAM ATFM Roadmap prepared and approved by the meeting through Conclusion SAM/IG/2-6 - *ATFM Roadmap*; the ATFM Procedural Handbook; aspects related to the methodology to estimate ATC sectors and runway capacity; an ATFM AIC model to be published by States on 7 May 2009; ATFM tasks which should be included within the ATFM action plan; and the terms of reference of the SAM Region ATFM Implementation Group (SAM/ATFM/IG), were revised.

2 Discussion

2.1 From the discussions and the exchange of views on this matter, the meeting concluded on the need to include a series of tasks in the ATFM action plan, and at the same time, requested the Secretariat to take actions so that the same are executed within the framework of Regional Project RLA/06/901, as required.

2.2 Among the tasks to be developed by an Expert, the meeting identified the development of the ATFM Procedural Handbook for the SAM Region and a methodology to estimate ATC sectors and runway capacity, to serve as reference and application by SAM States, if such were the case, were identified.

2.3 With regard to the ATFM Procedural Handbook, this activity will be carried out within the period 6 to 17 July 2009, and it is foreseen that the document will be presented during the SAM/IG/04 Meeting. With respect to the Document on Methodology to estimate ATC sectors and runway capacity, its preparation is foreseen at for date further to the course to be dictated in Brazil on March 2009.

2.4 In view that the ATFM Action Plan contemplates tasks in charge of specific persons responsible, with target dates established, it is necessary to make a periodical revision as a follow-up of the tasks complied for each one of the persons responsible by the Implementation Group. To this end, **Appendix A** to this working paper shows the tasks to be complied on occasion of this third implementation meeting. This analysis should be made also taking as reference **WP/02**.

3 Suggested action

3.1 The meeting is invited to:

- a) Take note of the information provided herein; and
- b) Review the progress reached, and if applicable, update the ATFM implementation action plan of the SAM Region, as 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 RLA06/901 RO	Finalised
1.2 Send survey to the States of the Region	Aug 2008	SAM/IG/2	RO	Finalised
1.3 Analyse the methodology presented by Brazil for estimating airport capacity	June 2008	SAM/IG/2	ATFM/IG	Finalised and analyzed through WP/8, WP/16.
1.4 Send response to survey	N/A	SAM/IG/2	E	Finalised The Regional Office sent the survey to those States that had not yet done so.
1.5 Assess survey results	N/A	December 2008	ATFM/IG	The survey and information submitted by States was sent to the ATFM/TF Rapporteur
1.6 Course offered by Brazil on Airport Capacity Estimate	Mar 2009	Mar 2009	Brazil	Finalised 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	Result to be presented at SAM/IG/4
1.8 The States estimate the airport capacity of their major airports	Jul 2009	SAM/IG/5	E	
1.9 Identify airports where the demand sometimes exceeds capacity, including, if necessary, simulations by the States	Aug 2009	SAM/IG/5	E	

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
1.10 Determine operational factors affecting airport demand and capacity in order to optimise the use of existing capacity, including simulations, if necessary	May 2009	SAM/IG/5	E	
1.11 Submit the conclusions on airport capacity	N/A	SAM/IG/5	E	
2. Coordination with the ATM community	Sep 2008	Jun 2009		
2.1 Present initial AIC model	SAM/IG/2	SAM/IG/2	ATFM/IG	Finalised
2.2 Publish initial AIC	SAM/IG/2	Next AIRAC date/2009 after SAM/IG/3	E	A reminder was sent to States for its publication.
2.3 Organise the ATFM community taking into account the CDM concept for ATFM implementation, and begin the relevant coordination		May 2009	E	
2.4 Inform the GREPECAS ATM Subgroup			N/A	
3. Infrastructure and database		Aug 2008		
3.1 Send the results of the survey developed by the hired expert to the Automation Group		Dec 2008		Valid This task has not yet been executed
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	SAM/IG/3		Valid This task has not yet been executed
3.3 Coordinate implementation activities with the Automation Group			ATFM/IG	Permanent

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
4. Policy, standards, and procedures			Nov 2008	
4.1 Hire 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	OR	Finalised. The task will be developed from 6 to 17 July 2009
4.3 Detailed development of ATFM Manual chapters	Dec 2008	SAM/IG/5	OR	Valid Approved partial draft, including ATFM concepts for airspace and airports. To acknowledge status of implementation at SAM/IG/4. The initial task shall be developed from 6 to 17 July 2009.
4.4 Present the model AIC Supplement		SAM/IG/5	ATFM/IG	
4.5 Approve the AIC Supplement		SAM/IG/5	ATFM/IG	
4.6 Publish the AIP Supplements		October 2010	E	
5. Training	Sep 2008			
5.1 Draft ATFM training plans		SAM/IG/4	E	
5.2 Train the team on decision-making at airports		Jun 2009	E	
5.3 Hire expert to draft Manual on the Introduction to ATFM for the ATM Community		SAM/IG/3	RLA/06/901	Valid This task has not been executed
5.4 Present and assess the Manual for the Introduction to ATFM for the ATM Community		SAM/IG/4	RLA/06/901	

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
5.5 Train the members of the ATM community in the CDM and ATFM concepts		TBD	E	
5.6 Train the staff in ATFM measures for airports		SAM/IG/4	E	
5.7 Monitor the training of the ATM community		Jul 2010	E	
6. Final implementation decision				
6.1 Review factors affecting the implementation decision		SAM/IG/6	ATFM/IG	
6.2 Declare the pre-operational implementation in the defined area			E	
6.3 Declare the final operational implementation in the defined area			E	
7. Monitor system performance				
7.1 Draft the ATFM post-implementation follow-up programme at airports	SAM/IG/7	SAM/IG/8	CARSAMMA	
7.2 Implement the ATFM post-implementation follow-up programme at airports	SAM/IG/6	SAM/IG/7	ATFM/IG	
7.2 Implement the ATFM post-implementation follow-up programme at airports	SAM/IG/7	TBD	SAM/IG/X	
Tentative pre-operational implementation date				
		N/A	Oct 2010	
Tentative definitive implementation date				
		N/A	Dec 2010	

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			
Task description	Start	End	Responsible party (designate individual or office in charge)
1. Airspace demand and capacity analysis			
1.1 Analyse the methodology to estimate airspace capacity presented by Brazil	Jun 2008	TBD	
1.2 Prepare an airspace demand survey	TBD	TBD	
1.4 Attend the course on Airspace Capacity Estimate	TBD	TBD	
1.5 The States estimate airspace capacity at the major airports	TBD	TBD	
1.6. Identify airspace sectors where demand sometimes exceeds capacity, including simulations by the States, if necessary	TBD	TBD	
1.7 Identify operational factors affecting airspace demand and capacity in order to optimise the use of existing capacity, including simulations if necessary	TBD	TBD	
1.8 Present the conclusions on airspace capacity	TBD		
2. Coordination with the ATM community	Sep 2008	Jun 2009	
2.1 The ATM community considers the implementation of ATFM in the airspace	Sep 2008	Jun 2009	
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	
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 objectives and principles established in the CAR/SAM ATFM CONOPS	TBD	TBD	
5. Training	TBD	May 2013	
5.1 Train the team on airspace data collection	Jun 2009	Jun 2009	
5.2 Train the staff on strategic ATFM measures for the airspace			

5.3 Develop ATFM plans and training material	TBD	TBD	
5.4 Train the personnel involved	TBD	TBD	
6. Final implementation decision	N/A	Sep 2013	
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	
7. Monitor system performance	TBD	N/A	
7.1 Draft ATFM post-implementation follow-up programme	TBD	Aug 2013	
7.2 Implement ATFM post-implementation follow-up programme	Dec 2013	N/A	
Tentative pre-operational implementation date	N/A	Jul 2013	
Tentative definitive implementation date	N/A	Dec 2013	