



SAM/IG/2
WP/08
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**International Civil Aviation Organization
South American Regional Office**

**SECOND WORKSHOP/MEETING OF THE SAM IMPLEMENTATION GROUP (SAM/IG/2)
REGIONAL PROJECT RLA/06/901**

Lima, Peru, 3 to 7 November 2008

Agenda Item 4: Implementation of air traffic flow management (ATFM) in the SAM Region

ACTION PLAN FOR ATFM PHASE 1 IMPLEMENTATION

(Presented by the Secretariat)

Summary
This working paper proposes the meeting to make a revision of the progress reached in the short-term action plan to implement ATFM in the SAM Region.
References: <ul style="list-style-type: none">• First Workshop/Meeting of the SAM Implementation Group (SAM/IG/1) Report, Lima, Peru, 21 to 25 April 2008• Regional Project RLA/06/901.• Short-term action plan to implement ATFM in the SAM Region.
ICAO Strategic objectives Strategic Objective A <i>Safety</i> Strategic Objective C <i>Environmental Protection</i> Strategic Objective D <i>Efficiency</i>

1 Background

1.1 GREPECAS, during the Fourteenth Meeting of GREPECAS (GREPECAS/14) examined the CONOPS and, in the understanding that it was an evolutionary document that could be amended as necessary, adopted Conclusion 14/49 – Adoption of the ATFM operational concept for the CAR/SAM Regions, stipulating that CAR/SAM States/Territories/International Organisations should adopt the CAR/SAM ATFM operational concept (ATFM CONOPS) and establish a work programme to enable the implementation of the ATFM CONOPS.

1.2 Taking as reference the above, the SAM/IG/1 Meeting deemed it necessary that harmonious procedures be developed among ATFM units during the implementation process in the SAM Region, in order to avoid safety risks. This implies the establishment of a regional and inter-regional strategy to facilitate and harmonise the whole implementation.

2 Discussion

2.1 Considering the above, the SAM/IG/1 Meeting assessed the model action plan for the first phase of ATFM implementation and introduced the necessary changes, as well as the dates for the completion of tasks and those responsible for such tasks, and adopted the Action Plan that appears in **Appendix B** to this working paper.

2.2 Also, the meeting felt that the development of the material required for ATFM implementation would demand the hiring of experts to work full time in the fulfilment of some of the tasks of the action plan. The detailed result of this work is described in WP/07.

2.3 In view that the short-term action plan to implement ATFM in the SAM Region, contemplates tasks in charge of designated officers, a periodical review is necessary so as to follow-up tasks complied by each one of the responsible persons designated by the Implementation Group. To this end, **Appendix A** to this working paper, shows the tasks to be complied on occasion of this second implementation meeting, while **Appendix B** shows the complete plan, so that the meeting may review and update it.

3 Suggested action

3.1 The meeting is invited to:

- a) Take note of the information provided herein; and
- b) Review the progress reached in the short-term action plan to implement ATFM in the SAM Region, as shown in **Appendix A** to this working paper.
- c) Review and update the ATFM Action Plan shown in **Appendix B** to this working paper.

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APPENDIX A

STATUS OF IMPLEMENTATION OF ATFM TASKS, AS PER ATFM ACTION PLAN - AIRPORT

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	Completed
1.2 Send survey to the States of the Region	Aug 2008	SAM/IG/2	RO	Completed
1.3 Analyse the methodology presented by Brazil for estimating airport capacity	June 2008	SAM/IG/2	ATFM/IG	Presented by Brazil. Will be analysed by ATFM/IG during SAM/IG/2
1.4 Send response to survey	N/A	SAM/IG/2	E	At the time of writing this document, replies from Bolivia, Chile and Ecuador were received
1.5 Assess survey results	N/A	SAM/IG/2	ATFM/IG	During SAM/IG/2
2. Coordination with the ATM community	Sep 2008	Jun 2009		
2.1 Present initial AIC model	SAM/IG/2	SAM/IG/2	ATFM/IG	During SAM/IG/2
3. Infrastructure and database	Aug 2008	Apr 2009	Aug 2008	
3.1 Send the results of the survey developed by the hired expert to the Automation Group	SAM/IG/2	SAM/IG/2	RO	During SAM/IG/2
3.2 Coordinate implementation activities with Automation Group	N/A	Permanent	Internal coordination	Permanent
Additional tasks carried out by the ATFM Expert, Project RLA/06/901				
Draft CAR/SAM Roadmap	N/A	SAM/IG/2	ATFM Expert	Draft completed. Will be analysed during SAM/IG/2
CAR/SAM ATFM Manual	N/A	SAM/IG/2	ATFM Expert	Initial Draft completed. Will be analysed during SAM/IG/2

Note:

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

APPENDIX B

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	Completed
1.2 Send survey to the States of the Region	Aug 2008	SAM/IG/2	RO	Completed
1.3 Analyse the methodology presented by Brazil for estimating airport capacity	June 2008	SAM/IG/2	ATFM/IG	Presented by Brazil. Will be analysed by ATFM/IG during SAMM/IG/2
1.4 Send response to survey	N/A	SAM/IG/2	E	At the time of writing this document, replies from Bolivia, Chile and Ecuador were received.
1.5 Assess survey results	N/A	SAM/IG2	ATFM/IG	During SAM/IG/2
1.6 Course offered by Brazil on Airport Capacity Estimate	Mar 2009	Mar 2009	Brazil	23 – 27 March 2009
1.7 The States estimate the airport capacity of their major airports	Jul 2009	SAM/IG/5	E	
1.8 Identify airports where the demand sometimes exceeds capacity, including, if necessary, simulations by the States	Aug 2009	SAM/IG/5	E	
1.9 Identify 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	
1.10 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	During SAM/IG/2

2.2 Publish initial AIC	SAM/IG/2	AIRAC date/2009	E	
2.3 Organise the ATFM community taking into account the CDM concept for ATFM implementation, and begin the relevant coordination			May 2009	
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			SAM/IG/2	During SAM/IG/2
3.2 Coordinate implementation activities with the Automation Group			N/A	Permanent
4. Policy, standards, and procedures			Nov 2008	
4.1 Hire expert to draft the manuals on ATFM measures and FMU and FMP procedures			N/A	Draft developed
4.2 Present and assess the Manuals on ATFM Measures for Airports, and the FMU and FMP Procedural Handbook			N/A	SAM/IG/2
4.3 Present the model AIC Supplement			N/A	
4.4 Approve the AIC Supplement			N/A	
4.5 Publish the AIP Supplements			N/A	
5. Training			Sep 2008	
5.1 Draft ATFM training plans			SAM/IG/4	
5.2 Train the team on decision-making at airports			Jun 2009	
5.3 Hire expert to draft Manual on the Introduction to ATFM for the ATM Community			SAM/IG/3	
5.4 Present and assess the Manual for the Introduction to ATFM for the ATM Community			SAM/IG/4	
5.5 Train the members of the ATM community in the CDM and ATFM concepts			TBD	
5.6 Train the staff in ATFM measures for airports			SAM/IG/4	
5.7 Monitor the training of the ATM community			Jul 2010	

6. Final implementation decision			N/A	
6.1 Review factors affecting the implementation decision			SAM/IG/6	
6.2 Declare the pre-operational implementation in the defined area			N/A	
6.3 Declare the final operational implementation in the defined area			N/A	
7. Monitor system performance	SAM/IG/7	SAM/IG/8	CARSAMMA	
7.1 Draft 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	