



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

REVIEW OF THE ATFM ACTION PLAN

(Presented by the Secretariat)

SUMMARY	
This working paper invites the Meeting to review the progress made in terms of the Action Plan for the Implementation of ATFM in airports and airspace of the SAM Region.	
REFERENCES:	
<ul style="list-style-type: none">• SAM/IG meeting reports	
ICAO Strategic Objectives:	<i>A - Safety C - Environmental protection and sustainable development of air transport</i>

1 Background

1.1 SAM/IG workshops/meetings have analysed, *inter alia*, topics related to ATFM implementation in the South American Region and its related activities.

2 Discussion

2.1 Based on the discussions and exchange of opinions on ATFM, the SAM/IG/10 meeting reviewed and updated the action plan.

2.2 Taking into account that the ATFM Action Plan contemplates tasks by the responsible parties with target dates for completion, a periodic review is required as follow-up to the tasks accomplished by the responsible parties designated by the Implementation Group. To this end, **Appendix A** to this working paper shows the tasks accomplished according to the information available to the Secretariat.

2.3 Likewise, ATFM focal points of the States must report the reasons of failure to fulfil the tasks on the agreed dates so that the Regional Office may clearly identify issues and find solutions in coordination with State authorities.

3 **Suggested action:**

3.1 The Meeting is invited to:

- a) take note of the information provided herein; and
- b) review the progress made and update the Action Plan for the Implementation of ATFM in the SAM Region shown in Appendix A to this working paper.

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 (runway capacity) analysis	Sep 2008	Apr 2010		
1.9 Carry out Calculation of Airport and Airspace Capacity of main airports by States. 1. Identify main airports. 2. Identify airports exceeding runway capacity. 3. Carry out capacity and ATS sector calculation capacity. 4. Define airports capacity.	Sep 2009	SAM/IG/8	States	<p style="text-align: center;">Valid</p> Brazil, Paraguay and Peru presented the data. Venezuela presented its runway capacity calculation for the Maiquetía airport. Chile announces completion of estimates in its main airport, results to be provided mid-June. Valid in view of the lack of estimates in some airports. As a conclusion encourage States to accelerate publication of data, date to be determined by Secretariat, even though the tentative date would be SAM/IG/11.
1.10 Identify airports where periods exist where the demand is greater than existing capacity including simulations, if necessary, by States.	Sep/Oct 2009	SAM/IG/8	States	<p style="text-align: center;">Permanent</p> Brazil, Paraguay and Peru presented the data. It is suggested to merge 1.9 with 1.12 and 1.10 with 1.11 in order to assure States that the aim of these tasks is to share information.

A: AIRPORT				
Task description	Start	End	Responsible party (designate individual or organisation in charge)	Remarks
1.11 Determine operational factors affecting airport demand and capacity to optimise utilisation of existing capacity, including simulations, is necessary.	Sep/Oct 2009	SAM/IG/8	States	Valid Brazil, Paraguay and Peru presented the data.
1.12 Present the conclusions on existing airport capacity.	N/A	SAM/IG/8	States	Valid Brazil and Peru presented their conclusions on airport capacity (runway capacity)
2. Coordination with the ATM community				
2.3 Promote seminars to the ATFM community considering the CDM concept for the implementation of ATFM and initiate corresponding coordination. 1. Consider the CDM course together with the runway capacity and ATS sectors courses, for June 2013. 2. ICAO Office to ask DECEA-CGNA a basic course for States: tentative date June 2013.		December 2010	States	Finalized An AFTM/CDM course was carried out in Brazil in 2010 with the participation of several States.
3. Infrastructure and database		Aug 2008		
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 The meeting was informed that the Secretariat will follow-up on this matter.
3.3 Coordinate implementation activities with the Automation Group.			ATFM/IG	Permanent Hire a group of experts to review the manual.

A: AIRPORT				
Task description	Start	End	Responsible party (designate individual or organisation in charge)	Remarks
4. Policy, standards, and procedures				
4.7 Keep updated AIP/AIC Supplements.		SAM/IG/10	States	Permanent
5. Training				
5.1 Draft ATFM training plans and submit them.		TBD	States	Permanent
5.6 Train FMP/FMU staff for application of ATFM measures for airports.		TBD	States	Permanent
5.7 Monitor the training of the ATM community.		SAM/IG/10	States	Permanent
6. Final implementation decision				
6.1 Identify and review factors that may affect the implementation decision.		SAM/IG/10	States	Valid
6.2 Declare the pre-operational implementation in the defined area.		SAM/IG/10	States	Valid Declare definitive date for implementation.
6.3 Declare the final operational implementation in the defined area.		SAM/IG/10	States	Valid
7. Monitor system performance				
7.1 Draft the ATFM post-implementation follow-up programme at airports.	SAM/IG/6	SAM/IG/10	ATFM/IG	Valid

A: AIRPORT				
Task description	Start	End	Responsible party (designate individual or organisation in charge)	Remarks
7.2 Implement the ATFM post-implementation follow-up programme at airports.	SAM/IG/7	SAM/IG/10	States	Valid
Tentative pre-operational implementation date SAM/IG		SAM/IG/10	States	Valid
Tentative definitive implementation date		SAM/IG/10	States	Valid

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				
1.2 Prepare an airspace demand survey.	TBD	TBD		Valid
1.4 Carry out the States estimate airspace ATC sector capacity at the major airports.	Sep 2009	SAM/IG/10	States	Valid States must submit their studies before the SAM/IG/10 Meeting. Brazil has presented their studies.
1.5. Identify airspace sectors where demand sometimes exceeds capacity, including simulations by the States, if necessary.	TBD	SAM/IG/10	States	Permanent States must submit their studies before the SAM/IG/10 Meeting. Brazil has presented their studies.
1.6 Identify factors affecting airspace demand and capacity in order to optimise the use of existing capacity, including simulations if necessary.	TBD	SAM/IG/10	States	Permanent States must submit their studies before the SAM/IG/10 Meeting. Brazil has presented their studies.
1.7 Present conclusions on the existing airspace capacity.	TBD	SAM/IG/10	States	Valid States must submit an information paper on the situation before the SAM/IG/10 Meeting. Brazil has presented their studies.

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
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	SAM/IG/10	States	Valid States in implementation phase should coordinate with the ATM community the necessary actions for the ATFM implementation process and submit them to the Secretariat before the SAM/IG/10 Meeting. Submit for consideration of the Secretariat the new tasks form proposed by Colombia and discussed by all. Secretariat must issue a communication so that States define who may implement ATFM.
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	ATFM/IG	Valid
3.2 Coordinate implementation activities with the Automation Group.	N/A	Dec 2013	ATFM/IG	Valid
4. Policy, standards, and procedures	TBD	Jun 2013	States	
4.1 Develop ATFM policies, taking into account the objectives and principles established in the CAR/SAM ATFM CONOPS.	TBD	TBD	States	Valid

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
4.2 Develop a regional strategy and framework for the implementation of Centralized ATFM units.	2008	2014	Regional Project RLA/06/901	Valid
4.3 Develop template/contents for operational agreements between Centralized ATFM units for interregional demand/capacity balancing.	2008	2014	Regional Project RLA/06/901	Valid
4.4 Define common elements of situational awareness between FMUs; <ul style="list-style-type: none"> • common traffic displays; • common weather displays (Internet); • communications (teleconferences, web): and • daily teleconference/messages methodology advisories. 	2008	2012	Regional Project RLA/06/901	Permanent Subject to evaluation of SAM/IG/10-WP/12 States maintain web conferences for exchange of information.
4.5 Define common electronic information and minimum databases required to support decision making process and alerting systems for interoperable situational awareness between Centralized ATFM units.	2008	2014	Regional Project RLA/06/901	Valid
4.6 Develop a regional strategy to implement the use of a flexible upper airspace (FUA): <ul style="list-style-type: none"> • evaluate the management processes in the use of the airspace; • improve the current domestic airspace management to adjust dynamic changes to the traffic flows in tactical stages; • introduce improvements to the ground ATS systems and associated procedures for the extension of the FUA with dynamic management processes in the use of the airspace; 	2008	2015	Regional Project RLA/06/901	Valid

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
<ul style="list-style-type: none"> dynamically implement ATC sectorization with the aim of providing a better balance between demand and capacity that responds in real time to changing situations in the traffic flows and to accommodate in the short-term the users preferred trajectories. 				
5. Training	TBD	TBD		
5.3 Train personnel in ATFM strategic measures for airspace.	TBD	TBD	States	Permanent An ATFM CDM course was carried out in Brazil in 2010 with the participation of several States
5.4 Prepare plans and ATFM training material	TBD	TBD	States	Valid
5.5 Conduct training of personnel involved.	TBD	TBD	States	Valid
6. Final implementation decision	N/A	Sep 2012	States	
6.1 Analyse factors affecting the implementation decision.	N/A	SAM/IG/11	States	Valid Initial end date: SAM/IG/8
6.2 Declare pre-operational implementation in the area defined.	N/A	SAM/IG/12	States	Valid Initial end date: SAM/IG/8
6.3 Declare definitive operational implementation in the area defined.	N/A	SAM/IG/12	States	Valid Initial end date: SAM/IG/8

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	States	
7.1 Prepare ATFM system performance supervision plan	2010	2013	Regional Project RLA/06/901	Valid
7.2 Draft ATFM post-implementation follow-up programme.	TBD	Aug 2013	States	Valid
7.3 Implement ATFM post-implementation follow-up programme.	Dec 2013	N/A	States	Valid
Tentative pre-operational implementation date	N/A	Jul 2013	States	Valid
Tentative definitive implementation date	N/A	Dec 2013	States	Valid