



ATFM/TF/3  
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## International Civil Aviation Organization

### THIRD MEETING OF THE GREPECAS ATM/CNS SUBGROUP ATM COMMITTEE AIR TRAFFIC MANAGEMENT TASK FORCE – (ATFM/TF/3)

(San Andrés, Colombia, 18 to 22 June 2007)

**Agenda Item 3: Model Action Plan to improve Aerodrome Operations (AO) and the corresponding ATFM guidance material for FMU or FMP implementation**

#### MODEL ATFM ACTION PLAN FOR AERODROME OPERATIONS

(Presented by the Secretariat)

##### Summary

This working paper presents a model ATFM action plan for aerodrome operations to be evaluated by the meeting.

##### References:

- ATM/COMM/5 Meeting.

## 1. Introduction

1.1 GREPECAS/14 approved the Caribbean/South American ATFM Concept of Operations (CAR/SAM ATFM CONOPS), which reflects the order expected of events which might occur, and should help and guide planners in the design and gradual development of the ATFM system, in order to provide safety and efficiency, and ensure an optimum air traffic flow towards specific areas or through them during periods in which demand exceeds or is foreseen to exceed available capacity of ATC system.

2. **Analysis**

2.1 The ATM/CNS/SG ATM Committee observed that in several CAR/SAM Flight Information Regions, during the last years, saturation periods have been occurring in air operations. In some airports, traffic increase of up to 13% are presented, and it is foreseen that the problem will be greater as time goes by, since a continuous growth of air operations is foreseen.

2.2 In view of the above, States, Territories and International Organizations should take the necessary actions in order initiate progressive implementation of ATFM. To this respect, **Appendix A** to this working paper presents an action plan model to improve aerodrome operations, as established by the CAR/SAM ATFM CONOPS.

2.3 Basically, the action plan model is proposing airport strategic and tactical actions, taking into consideration the ATFM implementation concepts included in the CAR/SAM ATFM CONOPS.

3. **Action suggested**

3.1 The Meeting is invited to examine **Appendix A** to this working paper, and if deemed pertinent, make the necessary changes.

APPENDIX A

<b>Stage 1 – Model Action Plan for the implementation of airport strategic ATFM, to be used by CAR/SAM States and International Organisations</b>			
<b>Task description</b>	<b>Start</b>	<b>End</b>	<b>Responsible party (designate person or office in charge)</b>
<b>1. Analysis of system capacity</b>	<b>Sep 2007</b>	<b>Jun 2008</b>	
1.1 Identify airports in which there are periods when demand exceeds capacity	Sep 2007	Dec 2007	
1.2 Define and analyse system implementation scenarios	Sep 2007	Mar 2008	
1.3 Define plans for collecting data on flight intention (RPL, Official Airline Guide (OAG), flight tables, etc.	Sep 2007	Dec 2007	
1.4 Establish/adopt methodology for estimating airport capacity	Sep 2007	Dec 2007	
1.5 Estimate the capacity of airports affected and identified in 1.1	Sep 2007	Jun 2008	
1.6 Examine operational factors that affect demand and capacity, with a view to optimising the use of existing capacity	Sep 2007	Jun 2008	
1.7 Determine simulation requirements to optimise airport capacity (see 1.6)	Sep 2007	Jun 2008	
<b>2. Coordinate with industry, national and international organisations</b>	<b>Sep 2007</b>	<b>Jun 2008</b>	
2.1 Establish a tentative implementation date together with users	Sep 2007	Jun 2008	
2.2 Report to the ATM Committee	N/A	ATMC/7	
<b>3. Infrastructure and database</b>	<b>Sep 2007</b>	<b>Sep 2008</b>	
3.1 Determine information technology and infrastructure tools required	Sep 2007	Dec 2007	
3.2 Implement the required information technology and infrastructure tools	Dec 2007	Sep 2008	
<b>4. Training</b>	<b>Sep 2007</b>	<b>Dec 2008</b>	
4.1 Prepare ATFM training plans and material	Sep 2007	Jun 2008	
4.2 Provide training to the personnel involved	Jun 2008	Dec 2008	

4.3 Holding of seminars	Sep 2007	Dec 2008	
<b>5. Policies, standards, and procedures</b>	<b>Sep 2007</b>	<b>Sep 2008</b>	
5.1 Develop ATFM policies, including those related to procedures for the distribution of airport SLOT to operators conducting scheduled flights, based on airport saturation/congestion forecasts, and taking into account the objective and principles established in appendix AL to item 3 of GREPECAS 13.	Sep 2007	Jun 2008	
5.2 Develop the FMU or FMP procedural manual	Sep 2007	Jun 2008	
5.3 Publish the necessary AIP Supplements/NOTAMs	Jun 2008	Sep 2008	
<b>6. Final implementation decision</b>	<b>N/A</b>	<b>Dec 2009</b>	
6.1 Review the factors affecting the implementation decision	<b>N/A</b>	Sep 2008	
6.2 Declare the pre-operational implementation within the defined area	<b>N/A</b>	Sep 2008	
6.3 Declare the definitive pre-operational implementation within a defined area	<b>N/A</b>	Dec 2009	
<b>7. Monitor system performance</b>	<b>Sep 2008</b>	<b>Dec 2009</b>	
7.1 Prepare the programme for post-implementation follow-up of airport strategic ATFM	Sep 2008	Dec 2008	
7.2 Implement the programme for post-implementation follow-up of airport strategic ATFM	Dec 2008	Dec 2009	
<b>Tentative date for pre-operational implementation</b>	<b>N/A</b>	<b>Dec 2008</b>	
<b>Tentative date for definitive implementation</b>	<b>N/A</b>	<b>Dec 2009</b>	

<b>Stage 2 –Model Action Plan for Airport Tactical ATFM, to be used by CAR/SAM States and International Organisations</b>			
<b>Task description</b>	<b>Start</b>	<b>End</b>	<b>Responsible party (designate person or office in charge)</b>
<b>1. System capacity analysis</b>	<b>Sep 2008</b>	<b>Jun 2009</b>	
1.1 Identify airports in which there are periods when demand exceeds capacity and strategic management is inadequate (airports with significant demand for non-scheduled flights)	Sep 2008	Dec 2008	
1.2 Define and analyse system implementation scenarios	Sep 2008	Mar 2009	
1.3 Define plans for collecting data on flight intention (FPL, RPL, Official Airline Guide (OAG), flight tables, etc.)	Sep 2008	Dec 2008	
1.4 Establish/adopt a methodology to estimate airport capacity, if not already defined in phase 1	Sep 2008	Dec 2008	
1.5 Estimate the capacity of airports affected and identified in 1.1	Sep 2008	Jun 2009	
1.6 Examine the operational factors that affect demand and capacity with a view to optimising the use of existing capacity	Sep 2008	Jun 2009	
1.7 Determine the need for simulations to optimise airport capacity (see 1.6)	Sep 2008	Jun 2009	
<b>2. Coordinate with industry, national and international organisations</b>	<b>Sep 2008</b>	<b>Jun 2009</b>	
2.1 Establish implementation date together with users	Sep 2008	Jun 2009	
2.2 Report to the ATM Committee	N/A	ATMC/8	
<b>3. Infrastructure and database</b>	<b>Sep 2008</b>	<b>Sep 2009</b>	
3.1 Determine required information technology and infrastructure tools	Sep 2008	Dec 2008	
3.2 Implement required information technology and infrastructure tools	Dec 2008	Sep 2009	
<b>4. Training</b>	<b>Sep 2008</b>	<b>Dec 2009</b>	
4.1 Prepare ATFM training plans and material	Sep 2008	Jun 2009	
4.2 Provide training to the personnel involved	Jun 2009	Dec 2009	

4.3 Holding of seminars	Sep 2008	Dec 2009	
<b>5. Policies, standards, and procedures</b>	<b>Sep 2008</b>	<b>Sep 2009</b>	
5.1 Develop ATFM policies, including those related to procedures for the distribution of airport slots to operators conducting scheduled and non-scheduled flights, based on airport saturation/congestion forecasts, and taking into account the objective and principles established in appendix AL to item 3 of GREPECAS 13.	Sep 2008	Jun 2009	
5.2 Include new procedures in the FMU or FMP procedural manual (see phase 1)	Sep 2008	Jun 2009	
5.3 Publish the necessary AIP Supplements/NOTAMs	Jun 2009	Sep 2009	
<b>6. Final implementation decision</b>	<b>N/A</b>	<b>Dec 2010</b>	
6.1 Review the factors that affect the implementation decision	<b>N/A</b>	Sep 2009	
6.2 Declare the pre-operational implementation within the defined area	<b>N/A</b>	Sep 2009	
6.3 Declare the definitive operational implementation within the defined area	<b>N/A</b>	Dec 2010	
<b>7. Monitor system performance</b>	<b>Sep 2009</b>	<b>Dec 2010</b>	
7.1 Prepare the programme for post-implementation follow-up of airport tactical ATFM	Sep 2009	Dec 2009	
7.2 Implement the programme for post-implementation follow-up of airport tactical ATFM	Dec 2009	Dec 2010	
<b>Tentative date for pre-operational implementation</b>	<b>N/A</b>	<b>Dec 2009</b>	
<b>Tentative date for definitive implementation</b>	<b>N/A</b>	<b>Dec 2010</b>	