



**Agenda Item 5: Implementation of Air Traffic Flow Management (ATFM)**

**ATFM Teleconferences**

(Presented by the Secretariat)

<b>SUMMARY</b>	
The purpose of this working paper is to inform about ATFM teleconferences conducted to date, with a view to providing guidance to the SAM/ATFM/IG for analysing the need/feasibility of holding ATFM teleconferences and maintaining their corresponding forms.	
<b>REFERENCES:</b>	
- SAM/IG meetings	
<b>ICAO strategic objectives:</b>	<i>A - Safety</i> <i>B – Air navigation safety and efficiency</i> <i>E – Environmental protection</i>

**1. Background**

1.1 SAM/ATFM/IG meetings have noted that States should continue holding teleconferences amongst flow management units or positions, as part of the ATFM implementation process in the Region.

1.2 The SAM/IG/05 meeting addressed the issue of ATFM teleconferences for the first time, and since then, this matter is been addressed at SAM/IG meetings. An extract of SAM/IG meeting reports that address this matter is contained in **Appendix A**.

1.3 The SAM/IG/06 and SAM/IG/07 meetings considered that, for different reasons, States were not yet sufficiently prepared to hold daily teleconferences, but concluded that they should hold weekly ATFM teleconferences amongst flow management units and positions (FMUs/FMPs).

1.4 Likewise, the SAM/IG/08 meeting agreed that e-mail or SKYPE were valid tools that States could use to start handling flow management information. These tools have been considered as the simplest possible way to disseminate the ATFM philosophy in the Region. At that meeting, the SAM/ATFM/IG adopted an ATFM data exchange form that is being used by some SAM States (Argentina, Bolivia, Chile, Paraguay, Peru, and Venezuela) in a more or less regular manner, depending on the State. This form is shown in **Appendix B**.

1.5 The SAM/IG/10 meeting defined the format of the data exchange form to be used in operational teleconferences. This form is shown in **Appendix C**.

1.6 The SAM/IG/12 meeting took note of the intention to hold ATFM teleconferences on a weekly basis through ICAO/IATA. The first such activity was scheduled for 31 October 2013, at 15:00 UTC.

## 2. Discussion

2.1 Since the SAM/IG/13 meeting, the aforementioned States have intensified the delivery of the form, taking into account the FIFA World Soccer Cup. An analysis of the forms sent by each State follows.

### 2.2 Argentina

2.2.1 The Administration of Argentina sent 23 forms since 11 June 2014. Of these, the most outstanding are the following:

- a) The main flow management problem during this period was the flow control procedure in the Mendoza FIR, which established that ACFT would enter every 10 minutes, regardless of flight level, except for sanitary, humanitarian and State flights;
- b) During the FIFA 2014 World Cup, Mendoza and Santiago coordinated flow management of one ACFT every 5 minutes at the ASIMO position to reduce the impact of flights from Chile to Brazil.

### 2.3 Bolivia

2.3.1 The Bolivian Administration sent 19 forms from 3 June to 30 September 2014. The following examples extracted from those forms are noteworthy:

- a) Route UM548, in the segment ORALO-PILCO, suspended between 6 June and 6 September. NOTAM renewed, extending the suspension until 4 December.
- b) Installation of TAR DVOR/DME.

### 2.4 Chile

2.4.1 During the period between June and September, the Chilean Administration sent 26 forms, of which the following are the most noteworthy:

- a) Aerodromes with no delays.
- b) Restrictions in Argentinian airspace affected operations at the Santiago airport, requiring the publication of a NOTAM stating that IFR take-offs of non-scheduled flights to Argentina had to be coordinated 24 hours in advance in ARO Offices.
- c) Work performed in runways at SCEL (September 2014 to March 2015), with increased spacing between arrivals and departures, and changes in runway segregation. No delays.
- d) NOTAMs indicating possible delays due to ILS checking.
- e) Entry into the Santiago FIR every 5 minutes in position UMKAL and ASIMO.

2.5 **Paraguay**

2.5.1 During the period between 13 June and 30 September, the Paraguayan Administration sent 47 forms, which showed no delay issues in SGAS and in the Asunción FIR. Information on the main NOTAMs is quite thorough.

2.6 **Peru**

2.6.1 During the period between 8 June and 30 September, the Peruvian Administration sent 83 forms, showing no delay problems in SPIM and the Lima FIR. Forms were sent on a daily basis, including weekends, taking into account that they were assigned to the Lima ACC.

2.7 **Venezuela**

2.7.1 During the period between 9 June and 30 September, the Venezuelan Administration sent 28 forms, mostly during the period in which the FIFA 2014 World Cup was held, including the publication of a specific NOTAM on the subject. No delay issues were observed in SVMII or in the Maiquetía FIR.

3. **Suggested action:**

3.1 The Meeting is invited to:

- a) take note of the information contained in this working paper.
- b) review and update, as necessary, the ATFM data delivery forms contained in Appendix B.
- c) analyse the exchange of forms stated in b), and the best frequency for such exchange amongst ATFM focal points.
- d) analyse the possibility for each State to draft a monthly executive summary of the main factors that led to congestion and delays in the airspace and main airports, and distribute it amongst ATFM focal points and the SAM Regional Office.
- e) assess the need/feasibility of holding ATFM teleconferences amongst ATC/ATFM units, and the use of the data exchange form for operational teleconferences, shown in Appendix C.

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**APPENDIX A**


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**EXTRACT OF SAM/IG MEETING REPORTS THAT ADDRESS  
THE ISSUE OF ATFM TELECONFERENCES**

**SAM/IG/05**

**Pre-operational weekly ATFM Teleconferences between SAM States**

5.7 One of the most highlighting matters in the ATFM course was the exchange of information among concerned States, and in this connection, it was agreed to initiate weekly teleconferences of a pre-operational nature, in order to put into practice the procedures analysed and studied during the referred course.

5.8 In order to facilitate the participation of States, Boeing provided the use of a free service to carry out the teleconferences through AT&T. To this end, each State was assigned with a number 0800 from AT&T. In this sense, each State was allocated with a 0800 number in order to access to this service without charge. It should also be mentioned that due to the lack of local access to this AT&T service in Bolivia, Ecuador, Guyana, Paraguay and Suriname, the corresponding numbers have not been assigned yet, and consequently other access possibilities are being analysed. The list of updated numbers assigned, is shown in Appendix A to this part of the report.

5.9 Since this is a trial stage, it was agreed to keep the exchange of information simple, and to carry out the same on Mondays, Tuesdays and Wednesdays at 1400UTC in three (3) Groups, integrated by SAM Region States, as shown in Appendix B to this part of the Report. The airports on which there would be interest by States for exchange of information is also shown in the same Appendix.

5.10 Appendix C also shows an international briefing model form and a form filling guide for teleconferences, which will be used by the participants in the teleconference.

5.11 In this initial phase, the focal points *for ATFM coordination*, participating in the teleconference will send the international briefing form completed with their data to other participants or to any alternative e-mail, with an advance of 30 minutes before the teleconference (14, 00 UTC), to maximize the efficiency of it. This procedure will start to be implemented from 8 June 2010. ICAO Secretariat was requested to send to focal points *for ATFM coordination*, the Excel file so it can be completed and submitted by the participants of the teleconferences.

5.12 ATFM Implementation Group considered these ATFM pre-operational teleconferences continue to be weekly, due to communications infrastructure problems faced by some States.

5.13 Likewise, it was of the opinion that it would be convenient that starting SAM/IG/6 Meeting, an analysis of the daily application of these teleconferences be made. In this connection, the Meeting formulated the following Conclusion:

**Conclusion SAMIG/5-7      ATFM Teleconferences in the SAM Region**

That SAM States continue to hold weekly ATFM teleconferences between flow management units or flow management positions (FMU / FMP) to improve the exchange of information among participating States.

5.14 The Meeting also studied different alternatives that might enable direct participation of States that do not have free-charge telephone costs, as explained in paragraph 5.8 above.

5.15 Among these alternatives, the possibility to carry out teleconferences through REDDIG was evaluated, together with the Implementation Group for the improvement of communications, navigation and surveillance (CNS) capabilities, for en-route and terminal area operations.

5.16 The REDDIG itself does not have this capability to carry out the teleconference function, and would require a telephone line, connected to each one of the REDDIG nodes, at first through E1 digital link, in view that the teleconference capacity is for a minimum of 20 users.

5.17 Telephone lines connected to the REDDIG at the moment mostly have teleconference capability to a few users, and the necessary updating is required to carry out the teleconference function to the required capacity.

5.18 To this respect, the Implementation Group for the improvement of CNS capabilities should include within its activities a study contemplating the alternatives to carry out teleconferences to support Regional ATFM requirements.

5.19 In this regard, the Meeting requested that the CNS implementation group for the improvement of CNS includes within their activities a study of alternatives for conducting teleconferences through REDDIG to support the requirements of the Regional ATFM.

## **SAM/IG/06**

### **ATFM Teleconferences**

5.7 The ATFM Implementation Group had considered that, starting at the SAM/IG/6 meeting, the possibility of SAM States holding daily teleconferences should be analysed. The Meeting felt that the States, for various reasons, were not yet prepared to hold such daily conferences, but agreed that weekly ATFM teleconference should be held amongst flow management units or flow management positions (FMU/FMP), as had been established at the SAM/IG/5 meeting, in order to improve the exchange of information amongst the participating States.

5.8 However, Brazil and Venezuela agreed to hold daily teleconferences starting 6 December 2010 at 15:00 UTC, except on Wednesdays, in which 14:00 UTC would be maintained.

5.9 The Meeting requested the States participating in the teleconferences that, in addition to exchanging the forms containing the information of each State, live telephone contact be maintained according to the approved programme, so as to maintain the concepts established at the SAM/IG/5 meeting that led to the use of teleconferences.

**SAM/IG/07**

**ATFM teleconferences**

5.7 The ATFM Implementation Group had considered that the possibility of holding daily teleconferences between SAM States starting at the SAM/IG/6 meeting should be analysed. The Meeting felt that the States, for various reasons, were not yet prepared to hold such teleconferences on a daily basis, but concluded that weekly ATFM teleconferences should be held between flow management units or flow management positions (FMU/FMP), as established by the SAM/IG/5 meeting, so as to improve the exchange of information between the participating States. In view of communication problems with the line provided by Boeing, it was noted that the States were using SKYPE or e-mail as an alternate means of communication. The Meeting agreed to formalise the use of both means of communication until an appropriate or definitive means was agreed upon. Similarly, the States are requested to provide the user address with which they will sign in SKYPE, before 15 June.

5.8 The Meeting was informed that Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Panama, Paraguay, Peru, Venezuela and Uruguay were keeping in contact by e-mail.

**SAM/IG/08**

**ATFM Teleconferences**

5.6 The Meeting recalled that States should hold daily teleconferences amongst air traffic flow management units as part of the ATFM implementation process in the Region.

5.7 On the other hand, the meeting agreed that ATFM messages exchange is necessary to enable the completion of phases of ATFM implementation in the Region. Representatives agreed that e-mail or SKYPE are valid tools for States to start handling air traffic management information. These tools have been considered as the simplest way to disseminate the ATFM philosophy in the Region, furthermore, it was deemed pertinent, in order to standardise communications, to use the form model used so far by Paraguay, Colombia and Venezuela, presented as Appendix A to this part of the report. The meeting noted that only Paraguay, Colombia and Venezuela maintain their exchange of messages active.

5.8 The meeting agreed that the messages exchanges be made as per Appendix A to the report on Agenda Item 5 of the SAM/IG/5. Representatives agreed that the date of the first contact should be on 21 November 2011 and that States should exchange information and ATFM messages. The Secretariat is also requested to send to States in electronic format, the form model contained in **Appendix B** to this part of the report.

5.9 On the other hand, it is requested to all States to send the Secretariat before 14 November 2011 their e-mails, contact telephone and address to enter SKYPE in order to exchange information and ATFM messages. Also, the Secretariat is requested to send to States in electronic format the form contained in Appendix B.

### SAM/IG/10

#### **Structure of ATFM operational teleconferences**

4.9 Finally, the meeting defined the form for data exchange, **Appendix B** to this part of the report, which shall be used in operational teleconferences (TO). In addition, the group highlighted that during the first Telcon to be carried out on 31 October 2012, at 18:30 UTC, the initial presentation of the format for operational TELCONS, with emphasis in collaborative-decision making, in order to harmonize participation of ATFM units.

### SAM/IG/11

#### **Coordination with the ATM community**

4.6 One aspect mentioned when discussing this item was the way of establishing the exchange of information between the States. In this sense, it was agreed that teleconferences would be conducted as a follow-up to the ATFM action plan in order to assist States that so require in the resolution of any difficulties that they might encounter during the task implementation process.

4.7 These teleconferences will be conducted applying the “*go-to-meeting*” tool of the Regional Office, and will take place on the first Monday of each month. The ATFM implementation group, through its rapporteur, will coordinate as necessary with the Regional Office.

### SAM/IG/12

#### **ATFM teleconferences**

4.21 Regarding telecommunications, the Meeting took note of the plans to conduct weekly teleconferences on ATFM through ICAO/IATA, the first scheduled for 31 October at 15:00 UTC.

4.22 Furthermore, the ATFM database (required by the States according to their needs, level of implementation, and equipment available) will be sent to automation experts for coordination and improvement of requirements. The guide provided by Colombia was adopted.

4.23 The Meeting was apprised by the LAN Airlines Group of the importance of harmonising and standardising concepts in the Region, since member States had attained different levels. The primary objective of the ATFM Group was for everybody to reach the same level of implementation and thus satisfy all operators.

4.24 The Meeting welcomed the report on the level of ATFM implementation reached in Paraguay, as shown in Appendix E to this part of the report.

**APPENDIX B**

**TELE-CONFERENCE FORM (v1.0)**

1. STATE:

2. REPRESENTATIVE:

3. DATE/UTC TIME:

4. AERODROME 1:

4.1 Without delay    
With delay   Time:

4.1.1 Aerodrome characteristics:

a. RWY:  NOTAM N°

b. Nav. Aids:  NOTAM N°

c. Impact

4.1.2 Meteorology

a. Phenomena:

## APÉNDICE/APPENDIX C



## FORMULARIO DE INTERCAMBIO DE DATOS ENTRE UNIDADES ATFM

## DATA EXCHANGE FORM AMONG ATFM UNITS

## Impacto en la Unidad ATFM (nombre) / Impacts on ATFM Unit (name)

<b>Fecha/Date:</b>	<b>Responsables/Responsible</b>	1) Jose + ( <i>name of ATFM unit</i> ) / (nombre de la unidad ATFM)
		2) Carlos + ( <i>name of ATFM unit</i> ) / (nombre de la unidad ATFM)

<b>Aeropuertos/Airports</b> [ <i>name + (IATA code)</i> ]	<b>Impacto/Impact</b>	<b>Observaciones/Remarks</b>
Lima (LIM)	Yes ( )	NIL
La Paz (LPB)	Yes (X)	ISOLD TS/SH TODAY & TOMORROW
...	Yes ( )	...

## Observaciones / Observations

NIL
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Después de llenar el formulario, enviar para el correo siguiente: xxx@xxx  
 After fill the form, send it to the following email address: xxx@xxx

**Guía para el Formulario de intercambio de datos entre Unidades ATFM /  
Guidance for the data Exchange form among ATFM Units**

**Saludos e introducción / Greetings and introductions**

18:00 UTC TELCON planificada / planning TELCON

Período de Tiempo considerado desde 20:00 UTC a 20:00 UTC (período de 24-horas para iniciar)  
/ Covering timeframe from 20:00 UTC to 20:00 UTC (24-hour period, to start)

**Productos meteorológicos comunes / Common Weather Products**

[http://www.redemet.aer.mil.br/img\\_sat/img\\_sat.php?ID\\_REDEMETS=njnvoklfs0p8p0s6ln2flg8e4](http://www.redemet.aer.mil.br/img_sat/img_sat.php?ID_REDEMETS=njnvoklfs0p8p0s6ln2flg8e4)

- 1- Sudamérica [fecha del *briefing*] 18:30 (UTC); / South America [date] 18:30 (UTC);
- 2- Sudamérica Realzada [fecha del *briefing*] 18:30 (UTC); y / South America highlighted [date] 18:30 (UTC); y
- 3- Sudamérica Visible [fecha del *briefing*] 18:30 (UTC). / South America visible [date] 18:30 (UTC)

**Discusión de planificación - trabajo de los flujos principales / Planning discussion – Work from main flows**

**Condiciones meteorológicas y atmosféricas significativas / Significant weather and atmospheric conditions**

Actividad de tormenta / Thunderstorm activity

Turbulencia / Turbulence

Nubes de ceniza volcánica / Volcanic ash clouds

**Discusión del área terminal / Terminal Area discussion**

Para aeródromos seleccionados definido por los Estados. / For selected aerodromes: Definido por los Estados

Tasa de aceptación de aeródromo (AAR) – utilizaremos la capacidad del aeródromo (llegadas + salidas)

Aerodrome Acceptance Rate (AAR) – We are going to use Aerodrome capacity (arrivals + departures)

Demanda proyectada en el área terminal / Projected terminal area demand

Restricciones del aeródromo tal como proyectos de construcciones o inoperabilidad de NAVAIDS  
/ Aerodrome constraints, such as constructions projects or NAVAID outages

Iniciativas de gestión de tránsito aéreo anticipadas / Anticipated traffic management initiatives

Millas in-trail expandidas / Expanded miles-in-trail

Posibles esperas en los despegues / Potential airborne holdings

Posibles “ground stops” / Potential ground stops

**Discusión de operaciones en ruta / En-route discussion**

Restricciones de operaciones en ruta tales como interrupciones en frecuencias o NAVAIDS / En-route constraints, such as frequency outages or NAVAID outages

Discusión de operaciones en ruta y problemas relacionados/ Route discussion and issues

Iniciativas de gestión de tránsito aéreo anticipadas / Anticipated traffic management initiatives

Millas in-trail expandidas / Expanded miles-in-trail

Posibles esperas en los despegues / Potential airborne holdings

**Adiciones al plan, incluyendo cualquier actualización táctica / Additions to the plan, including any pertinent tactical updates**

**Información de la parte interesada, comentarios y preguntas / Stakeholder input, comments and questions**

**Siguiente TELCON planificada - Next Planning TELCON – XX:XX UTC**