



Agenda item 2: Report on GESEA Activities and Subgroups

b) ATM implementation. Progress of the Subgroups

UPDATE ON THE WORK OF GESEA SUBGROUP 3 (SG3 ATFM)

(Prepared by the Secretariat)

SUMMARY	
<p>This working paper presents the status of the work carried out by Subgroup 3 (ATFM) of the Study Group for the Implementation of the SAM Airspace (GESEA) with the aim of implementing and standardizing actions on flow management in the Region. The importance of providing surveys to States that prepare their task forces on a regular basis is emphasized.</p>	
References:	
<ul style="list-style-type: none">• GESEA/SG3/6 Report• GESEA/SG3/7 Report• Guide for the implementation of the ATFM Service in the SAM Region 2021 - 2025;• Operations Plan for the SAM Region (OPSAM) 2023; and• ICAO Doc 9973 - ATFM.	
ICAO's Strategic Objectives:	Increase the capacity and improve the efficiency of the global civil aviation system through the modernization of air navigation infrastructure and aerodromes and the development of new procedures to optimize the performance of the aviation system.

1 Background

1.1 The Seventh Meeting of Subgroup 3 (SG3/7) of the SAM Airspace Study and Implementation Group (GESEA) was held on September 6, 2023 thru videoconference.

1.2 It was attended by 42 delegates from the ATFM and ATS services from Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Panama, Paraguay, Peru, Uruguay and Venezuela. The tentative Work Plan for 2024 was agreed, as shown in **Appendix A**, which includes the work scheme of the SG3 Task Forces to avoid overlapping dates.

1.3 The topics developed, and respective conclusions are detailed below.

2 Analysis

SG3 Coordination Matters

2.1 The Secretariat noted that the coordinator of Subgroup 3, Mr. David Benedictis, was taking up his new duties in one Mission of the Brazilian Air Force. In consensus with the coordinators of the GESEA and coordinators of the SG3 task force, Mr. Bruno Antunes, who is an officer who serves as deputy head of the CGNA of Brazil, was summoned to assume the Coordination.

2.2 The Meeting expressed its appreciation to Mr. David Benedictis for his effort and dedication to the fast advancement of ATFM implementation activities in the South American region. In turn, Mr. Benedictis expressed his gratitude for the support received from the entire team and renewed his willingness to continue collaborating with GESEA's work.

2.3 Mr. Antunes greeted the Meeting and thanked GESEA for its commission. The Secretariat was tasked with facilitating the transition.

Follow-up of the Actions stipulated by SAM/IG

2.4 The Secretariat made the report on the progress of the following SAM/IG Actions, related to SG3:

Action S29/05	That it be coordinated and consulted at the level of the Member States of RLA/06/901 by means of a written communication on the ATFM portal initiative.	Secretariat	Coordinations no later than June 2023	2.82 Report SAM/IG/29
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2.5 A letter of consultation with technical deputies was sent to the Member States of Project RLA/06/901, and 4 opinions /comments were received in favor of the ATFM Portal initiative. The absence of a response to the letter is assumed as acceptance without comment, according to the practices of the Project.

2.6 Among these responses, one State expressed the need to know more data on the costs that the initiative may generate. It was indicated that the 17th Meeting of the coordination committee of RLA/06/901 would expand and present this information to the delegates of the Member States.

Action S29/06	That the measurements of runway capacity and the ATS sector be executed or updated, considering the recovery of the demand for operations expected for this year (to 2019 levels), and recognizing that in the ACCs there is a reduction in personnel, after the pandemic stage.	SG3 ATFM - GESEA Secretariat	Report to SAM/IG/30	2.84 Report SAM/IG/29
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2.7 The Secretariat highlighted the results of the courses on measurement and calculation of runway and ATC sector capacity, offered by Brazil in April of this year. Paraguay reported (see separate information paper) that the runway capacity calculation of the Asunción International Airport has been completed, which will be published in the AIP.

2.8 On the other hand, Panama reported on the organization of activities for the measurement of capacity of the Tocumen airport in the coming weeks. Peru reported the progress of activities to calculate

- 2.14 Indicators are available today in the Operations Plan:
- ✓ Number of take-offs and landings from major airports in the region;
 - ✓ Runway Capacity of Monitored Airports (GANP KPI09);
 - ✓ Runway capacity utilization is monitored through congestion schedules;
 - ✓ Maximum runway Performance (GANP KPI10).
 - ✓ Punctuality of departures and arrivals (GANP KPI01 and KPI14);
 - ✓ Additional taxiing time of monitored airports (GANP KPI02 and KPI13 – RWY and *Gate*);
 - ✓ Flight Time Variability for Major City Pairs (GANP KPI15);
 - ✓ Demand Accommodation (GANP KPI11);
 - ✓ Additional time in terminal area (GANP KPI08 – ASMA).

2.15 Regarding the Workshop/Course on ATM Performance Indicators held from July 3 to 14, 2023, at CGNA, Rio de Janeiro, Brazil, it was presented that the experience of Brazil and other SAM States was analyzed, focusing on systems and applications, as well as working methods for the available data and information. An information paper will be prepared for SAM/IG/30, where a similar edition of this Workshop/Course will be proposed for 2024.

2.16 Regarding the Second ATFM Data and Indicators Workshop, the Coordinator said that it will be held in the South American regional office in person, from September 18 to 22 of this year. Progress in the calculation of indicators in the operations plan will be analysed. The construction of the operations dashboard for the WINTER 23 season will be addressed. A draft for a performance report will be addressed to show the possibilities for States wishing to present and compare results and their progress on indicators.

GT ATFM Documentation

2.17 In this agenda item, the Rapporteur of the Task Force - Regional Documentation SAM ATFM (ATFM DOCS GT), Mr. Jorge Cornelio (Argentina), summarized its progress, promoted through the meetings of the second Monday each month, in accordance with the following:

Strategic Objectives

Revision and improvements for the documents developed by the SAM Region, for the ATFM Service:

- Guide for the Implementation of the ATFM Service in the SAM Region 2020/2025
- ATC Runway and Sector Capacity Calculation Manual.

GT Activity:

Revision – Update – Proposal: ATFM Documentation Contents for the SAM Region

Problem statement:

In this sense, we must recognize that the implementation, even though there are States/ANSPs, which already have services that were developed during the last decade, at the regional level requires the realization of improvements and even more so that the Region considers air traffic management as a necessary activity to maintain levels of demand. that do not exceed the capacity of the ATM system, which will allow the Demand/Capacity (DCB) balance to be maintained, achieving the highest efficiency of the system.

Task Details

This summary shows the tasks performed and those in execution, depending on the document in question:

A. Guide for the Implementation of the ATFM Service in the SAM Region 2021 – 2025

- Analyze the possibility of Improvements:

- PDA Improvements (**completed**),
- Improvements Post-Operation Report (**completed**),

- Other:

- The proposal for a working paper for approval was made in SAM/IG/29.

(A proposal for NE was submitted to the GS3 coordinator, but was left for SAM/IG/30)

NOTE: The OTHER point is open to new proposals for improvement.

B. Runway Capacity and ATS Sector Calculation Manual

- Open the analysis process to standardize the capability statement (On Going)
- Standardize the measurement and data collection process in the manual, including the steps to follow, the forms and processes necessary for the region to have a unified format. (On Going)
- Standardize a notification format for the SAM region, establishing the best medium: AIP, AIC, WEB Portal. Define a strategy to promote the definition of runway capacity values and ATC sectors for States that do not yet have such a definition. (On Going)

C. Map the development process of the Implementation of the ATFM Service in the SAM Region and the performance of the Runway and ATC Sector Capacity Calculation, and its declaration;

- Survey Cycles (Permanent) – Annual or On-Demand.

GT ATFM Cross Border

Note.- The Workshop/Meeting of the Working Group on Cross-Border ATFM SAM (GT XB), scheduled for the week of October 9-13, was postponed. It has been rescheduled for May 2024.

2.18 The Rapporteur of the Task Force – ATFM Crossborder (ATFM XB GT), Mr. Leonardo Costa (Argentina), outlined the GT's mandates:

- Elaboration of a model ATFM XB Letter of Agreement between adjacent States

A Model of ATFM XB LoA with minimum contents necessary for the particular situations between two States and their respective ATFM dependencies (FMU)

➤ Development of an ATFM XB Manual for the SAM Region

That promotes the application of the CDM methodology at the Cross-Border level.

That contains general principles and rules for the provision of ATFM Service at the Cross-Border level in the SAM Region.

To establish clear and efficient criteria for the application of ATFM Measures (*MIT, MINIT, PASSBACK, GROUND STOP, etc.*)

Meetings held by the ATFM XB GT

2.19 Since its creation in September 2022 and until now, the GT ATFM XB has met regularly to work on the issues that were assigned. See **Appendix C**.

2.20 In this sense, the dynamics of the meetings of the GT ATFM XB have mostly consisted of maintaining, on a monthly basis, two consecutive days of work under the virtual modality, through the MS Teams platform.

2.21 It is also worth noting that complementary meetings have been held (to the monthly conferences) in order to give continuity to certain issues that necessarily deserve to be defined in order to continue moving forward. Appendix B shows the list of meetings and the calendar for the following months.

Progress – LoA ATFM XB

2.22 It should be noted that the first meetings required a joint analysis of the current context in order to define strategies for the development of a manual and a model ATFM XB letter of agreement so that the States of the MAR Region can achieve the implementation of PHASE III ATFM in a harmonized manner.

2.23 Then, at the beginning of 2023, the GT worked during FEB/MAR 2023 both in the monthly meetings and in the complementary meetings so that the first draft of the ATFM XB LoA MODEL was presented at the Sixth Meeting of the ATFM Sub-Group 3 (Plenary SG3/6).

Progress – ATFM XB Manual

2.24 In order to carry out the drafting of the ATFM XB Manual, it was necessary to resort to ATFM documentation from the ASIA-PAC Region because in those areas where the implementation of ATFM XB (Multi-Nodal) has given the best results, taking into account the differences of each region and even more, the fact that the manual entrusted to this GT as it is being carried out has no homonymous precedents as is the case with documents such as, for example, the CONOPS.

2.25 Thus, in order to move forward, it was decided to start working in Inter-State Teams where two or more States are in charge of developing and proposing content to the different points/topics that will be contained in the ATFM XB Manual for the SAM Region.

Improvements for BRISA sessions in the Cross Border area.

2.26 The rapporteur of GT XB explained that the team has been analyzing possible improvements for the BISA sessions, including organizing a daily BRISA session between units that, in the near future, are developing cross-border services.

Organization to promote the ATFM portal

2.27 At its recent meeting on 12 October 2023, the GT decided to form an ad hoc group to effectively support the development of the ATFM portal and ensure an adequate interface with the portal's users. This ad hoc group will be coordinated by a delegate from Brazil and will have the support of specialists from Argentina, Peru and Chile, several of them with profiles oriented to computer science and systems management issues. By the way, it has the support of all the GESEA States, based on the "open group" work that characterizes it.

Other business of SG3

2.28 Uruguay reported that a two-week ATFM training workshop will be held next November in the field of cooperation with Brazil. This program will include a familiarization stage for air traffic controllers. Uruguay offered to integrate other specialists from the South American region who are interested in participating, for which they can contact Mr. Gabriel Falco.

2.29 A recent ATFM coordination between Chile and Argentina, carried out outside the hours of operation of the Chilean service, through the supervision of the ACC Santiago, was reported. In SAM States, most ATFM units do not currently cover H24 schedules. It was identified that the ATFM Cross-Border Manual should address procedures for cases that require after-hours coordination of ATFM services.

2.30 The SG3 stresses to SAM/IG/30 the importance of delivering the surveys to the States that prepare their task forces, on a regular basis. This information makes it possible to fine-tune the tasks of the ATFM specialists who collaborate on the deliverables, which results in the efficiency of the work of GESEA, the contributing body of the SAM/IG.

2.31 The meeting dates have been updated and the agenda for this year has been organized, trying to eliminate conflicts with other meetings, according to **Appendix B**.

3 Suggested Actions

3.1 States participating in the Meeting are invited to:

- a) Take note and analyze the information provided;
- b) analyze actions to improve the response to surveys; and
- c) approve the SG3 working plan for 2024.

APPENDIX A

2024 program for SG3 ATFM

Activities	Dates	Objectives / Deliverables
GESEA Plenary Meeting/7	Virtual, March 5-8	<ul style="list-style-type: none"> Organization of the implementation of efficiency and capacity initiatives. 2023 Subgroup Deliverables Review and adjustments of the PTA for Subgroups SG1 – SG2 – SG3 and respective Task Groups. Follow up.
ATFM Workshop	Virtual and face-to-face classroom, Rio de Janeiro, Brazil Tentative , April 2024	ATFM in-service training, in accordance with ICAO Doc. 9971. Divided into Virtual Classroom Phase and Face-to-Face Phase.
Workshop/Meeting of the Working Group on ATFM Crossborder SAM (GT XB)	Lima, May 6-10	Planning of the implementation of the Cross-border ATFM, according to the SAM Implementation Guide, based on intra-regional scenarios. Analysis of GT XB deliverables.
Workshop on the use of ATFM portal tools	Lima, Peru, June 3-7	Training of ATFM specialists in the use of the portal's features and tools for ATFM management. Implementation analysis.
Third ATFM Workshop: data management and calculation of GANP performance indicators.	Lima, July 8-12	<ul style="list-style-type: none"> Standardization of ATFM data. Demand analysis – capacity and forecasts. Benchmarking. Generation of GANP performance indicators.
GESEA SG3 ATFM Meeting	Follow-up of studies and activities for the implementation and optimization of the ATFM service.	Virtual, August 14-16

Scheme for synchronizing GESEA Meetings

J PEREIRA	SG1 GT FRTO – 4TH TUESDAY & WEDNESDAY
D KUC	SG1 GTPLAN/LOA ATS – 1ST MONDAY
C CASTAÑEDA	SG2 GT IMPLAN – 2ND THURSDAY
E TAFUR	SG2 GT DOCS PANS OPS – CONVENE ACCORDING TO PROGRESS
TO DUARTE	SG3 GT PLAN DCB – LAST MONDAY
J CORNELIO	SG3 GT DOCS ATFM – 2ND MONDAY
L COSTA	SG3 GT DOCS ATFM – CONVENE ACCORDING TO PROGRESS

APPENDIX B

2023 DCB PLAN GT MEETINGS

Options	1st Meeting	2nd Meeting	3rd Meeting	4th Meeting	5th Session	6th Session	7th Session	8th Meeting
(1) (L)	19/02	15/04	20/05	17/06	05/08	23/09	11/11	09/12
(2) (J)	22/02	18/04	23/05	20/06	08/08	26/09	14/11	12/12
(3) (L)	26/02	22/04	27/05	24/06	12/08	30/09	18/11	16/12
(4) (J)	28/02	25/04	29/05	27/06	15/08	03/10	21/11	19/12
	Desired Option							
	1st Alternative Option							
	The Chosen Option							

APPENDIX C

2022 – 2023 ATFM XB GT MEETINGS

MEETINGS HELD DURING 2022:

- 1st GT ATFM XB Monthly Meeting (11-12 OCT 2022)
- 2nd GT ATFM XB Monthly Meeting (15-16 NOV 2022)

MEETINGS HELD DURING 2023 (see chart below):

- 3rd ATFM XB Monthly GT Meeting (14-15 FEB 2023)
- *Side Meetings - "ATFM XB LoA MODEL" DRAFT REVIEW (Mar 10, 15 & 21, 2023)*
- 4th ATFM XB Monthly GT Meeting (17-18 APR 2023)
- *Companion Meeting - ASIA-PAC ATFM XB Documents (09 MAY 2023)*
- 5th ATFM XB Monthly GT Meeting (22-23 JUN 2023)
- *Complementary Meeting - ATFM XB Handbook Topics (29 Jun 2023)*
- 6th ATFM XB Monthly GT Meeting (19-20 JUL 2023)
- 7th ATFM XB Monthly GT Meeting (16-17 AUG 2023)
- *Complementary Meeting - Agenda for the ATFM XB Workshop - Lima (13 SEP 2023) (to be held)*

GT ATFM XB - YEAR 2023				
YEAR 2023	SAM/IG	GESEA	SG3 ATFM	GT ATFM XB
JAN				X
FEB				3rd ATFM XB GT Meeting (14 & 15 FEB 2023)
SEA		GESEA/6 PLENARY (from 1 to 3 MAR 2023)	PLENARY SG3/6 (23-24 MAR 2023)	Elaboration of version 1.0 of the Draft "LoA/MoU ATFM XB Model" (10 MAR 2023)
		Presentation of the progress of the GT XB "Road Map ATFM XB"	Presentation of version 1.0 of the Draft "LoA/MoU ATFM XB Model"	Discussion of version 1.0 of the "LoA/MoU ATFM XB Model" Draft (15 & 21 MAR 2023)
APR				4th ATFM XB GTG Meeting (17 & 18 APR 2023)

MAY	SAMIG/29 (from 15 to 19 May 2023)			Discussion on the Reference Material "ATFM XB Model in ASIA-PAC" (09 MAY 2023)
JUN				5th ATFM XB TGT Meeting (22-23 JUN 2023)
JUL				6th ATFM XB GT Meeting (19-20 JUL 2023) "Assignment of ATFM XB Manual Topics by Inter-State Task Forces" (29 JUN 2023)
AUG				7th ATFM XB GT Meeting (AUG 16-17, 2023)
SEP			SG3/7 PLENARY (from 4 to 5 SEP 2023)	"Agenda for the ATFM XB Workshop in Lima" (13 SEP 2023)
OCT	SAM/IG/30 (from 23 to 27 Oct 2023)			X
NOV				X
DEC				X