



**Agenda Item 2: Report of activities of GESEA and Subgroups**

**b) ATM implementation. Progress of the Subgroups**

**ATFM PORTAL FOR THE SAM REGION**

(Presented by Brazil)

**SUMMARY**

This working paper presents the proposal made by Brazil in Subgroup 3 (ATFM) of the SAM Airspace Implementation Study Group (GESEA) to develop a web-based tool aimed at sharing data and information with the international ATM community, as well as standardizing the exchange of ATFM messages for the coordination of cross-border ATFM solutions among participating States.

**References:**

- Guide for implementation of the ATFM Service in the SAM Region 2021 - 2025;
- Operations Plan for the SAM Region (OPSAM) 2023; and
- ICAO Doc 9973 - ATFM.

<b>ICAO's Strategic Objectives:</b>	To increase the capacity and improve the efficiency of the global civil aviation system through the modernisation of air navigation infrastructure and aerodromes and the development of new procedures to optimise the performance of the aviation system.
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**1 Introduction**

1.1 During SAM/IG/22, in 2018, the creation of the SAM Airspace Study and Implementation Group (GESEA) was proposed and approved with the following objectives:

- Coordinate the implementation of SAM route versions.
- Harmonize the implementation of PBN in the main SAM TMAs, applying the best international practices.
- Support SAM States in implementing STAR, SID and PBN approaches.
- Coordinate the migration process from RNAV nomenclature to RNP.

- e) Develop a harmonised methodology for post-implementation assessment, with the application of key performance indicators.
- f) Support the implementation of a regulatory framework for the design service of instrument flight procedures.
- g) Share best practices in the design and publication of instrument flight procedures to increase flight safety and efficiency.

1.2 Subsequently, on 22 June 2021, GESEA approved the creation of an ATFM Subgroup (SG3) as the participants identified a series of needs in the Region for the consolidation of an integrated and more robust ATFM service.

1.3 GESEA's ATFM Subgroup contributed to the delivery of several products, such as the SAM Operations Plan, the South American Operational Information Sessions ATFM SAM (BRISA), the Guide for the Implementation of the ATFM Service in the SAM Region 2021 – 2025, among others.

1.4 In 2022, SG3 approved the creation of a Working Group for the development of the *cross-border* ATFM service (GT XB), with the aim of standardizing and establishing tools for ATFM coordination among the States of the Region.

1.5 In this context, and in order to support the implementation of cross-border ATFM in the Region, Brazil presented the proposal to develop the ATFM SAM Portal, a web tool produced by GESEA and which will be the basis of the South American cross-border ATFM service.

## 2 Analysis

2.1 The ATFM SAM Portal is a collaborative web application between States of the SAM Region that allows concerned parties to interact and exchange information related to cross-border ATFM.

2.2 It should be noted that the SAM ATFM Portal is an initiative of GS3 of GESEA and that its development, future improvements and maintenance will be carried out in collaboration between the States of the SAM Region, with the mediation of ICAO Lima.

2.3 The main objective of the portal is to promote communication, collaboration and coordination among all stakeholders, with shared information in order to improve the efficiency of air operations in the airspace of the SAM Region, through the following functionalities:

- promote the regional integration of ATFM;
- sending messages between ATFM units in real time;
- monitoring air traffic demand and declared ATC capacity;
- monitoring of ATFM measurements;
- monitoring of meteorological phenomena in airspace;
- monitoring of events with significant impact on flow;
- production and standardized publication of the ATFM Daily Plan;
- results of ATM performance indicators;
- among others.

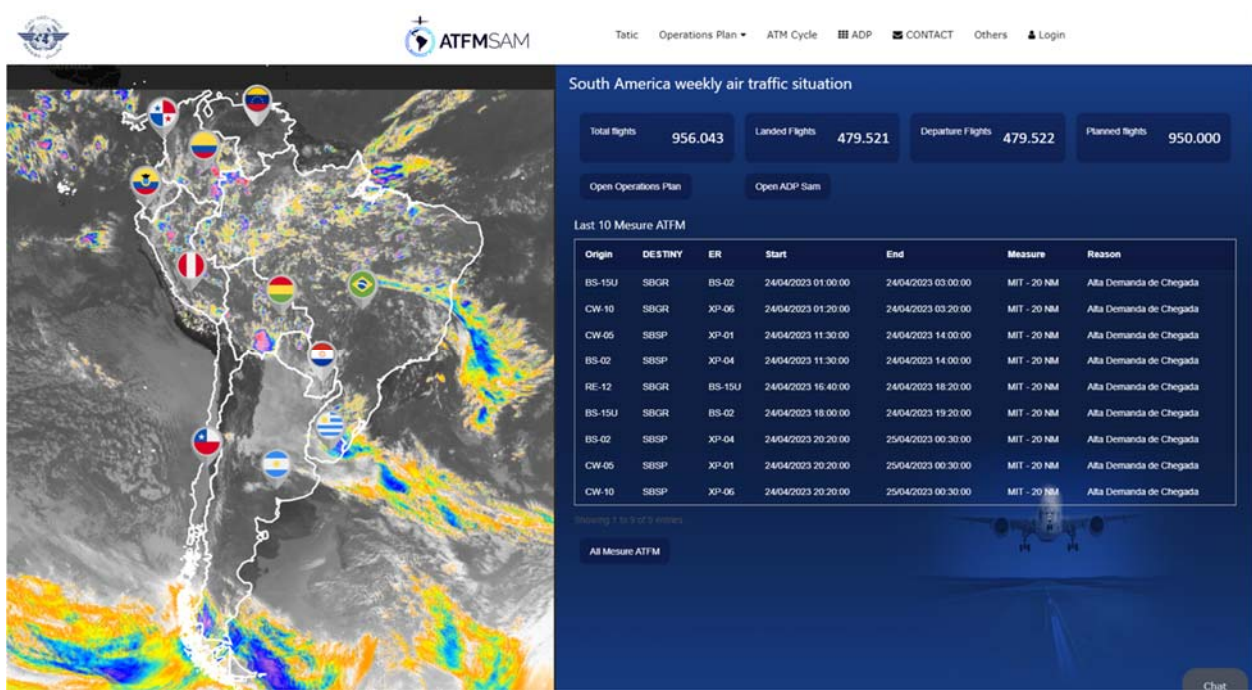
2.4 ATFM's SAM Portal will provide information of interest to the international ATM community in English, Spanish and Portuguese.

2.5 The ATFM SAM Portal development timeline includes the following project milestones:

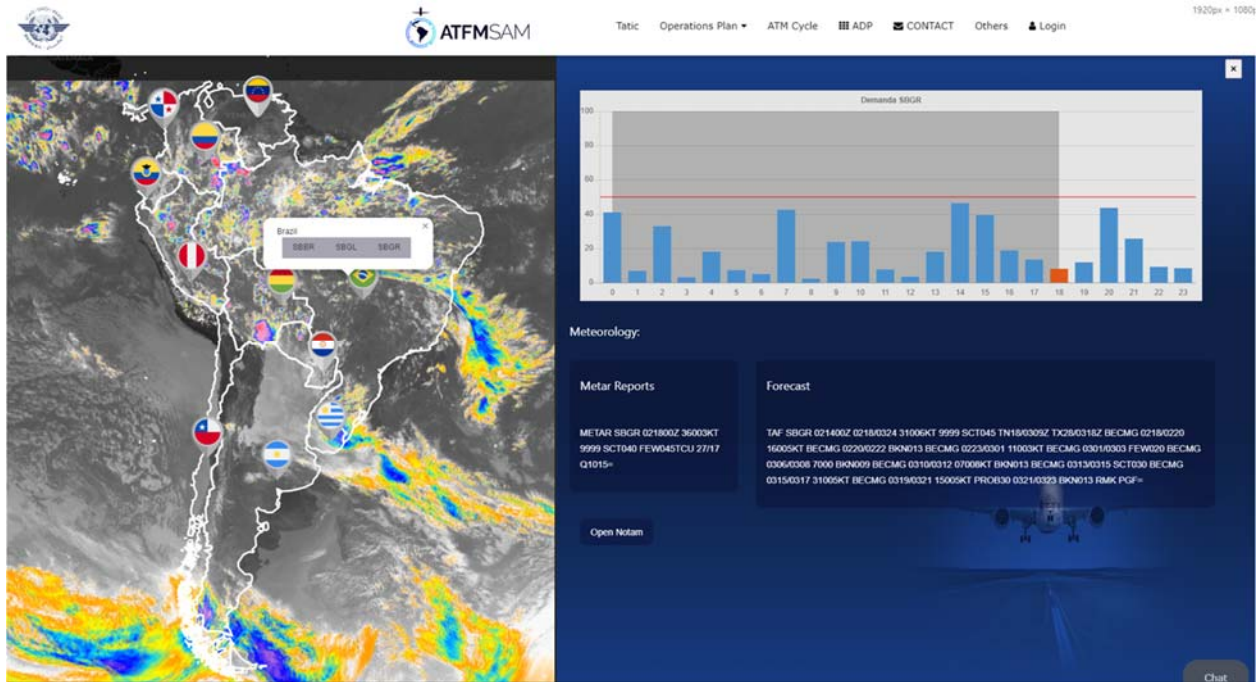
- a) submission of the initial version (BUILD 1) of the platform at SAM/IG/30, in October 2023, for approval by participating States;
- b) online workshop for training and validation in January and February 2024; and
- c) start of operation of the tool in February 2024.

2.6 The development of the tool, its functionalities, design and other decisions will be carried out within the scope of GT XB of GESEA SG 3.

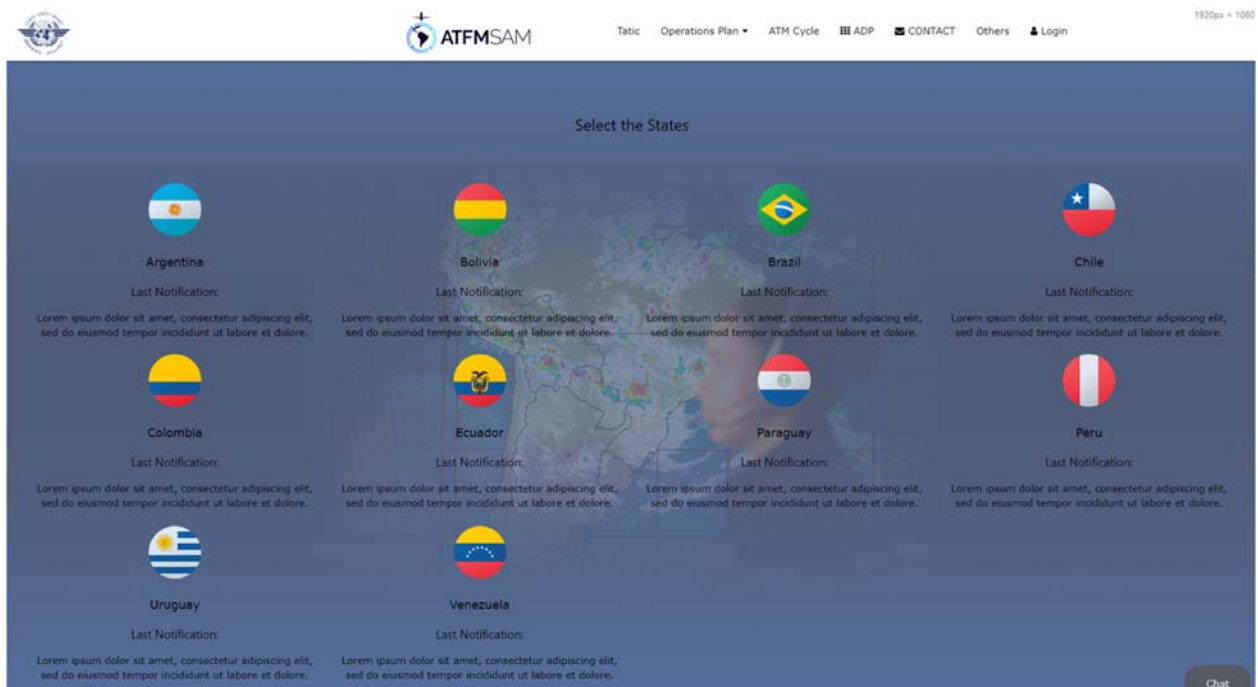
2.7 The SAM ATFM Portal will integrate with weather radars, providing real-time information for the consumption of airspace users.



2.8 Participating States shall define the airports that will have information available on the SAM ATFM Portal, in a manner harmonised with the OP-SAM. Thus, data on demand, capacity, eventual infrastructure degradation, application of ATFM measures, NOTAM of interest, among others, will be available for the consumption of the international ATM community through the Portal.



2.9 Participating States may also provide future (strategic and pre-tactical planning), current (tactical) and past (post-operational) information on air traffic demand from monitored airports, declared capacities, major events, works and infrastructure degradation, among others.



2.10 The SAM ATFM Portal will use the servers provided by ICAO Lima, which will coordinate the development and eventual future maintenance.

2.11 Through a secure environment (username and password), flow managers of the participating States will be able to exchange messages aimed at the implementation of an ATFM measure, which will be published in the external area of the Portal and stored in a database for future reference.

3 **Suggested actions**

3.1 States participating in the Meeting are invited to:

- a) Analyse the information presented in this working paper; and
- b) participate in the ATFM SAM Portal project.