



Agenda Item 4: Report on GESEA and Subgroup Activities and Deliverables

ATFM SAM PORTAL WORKSHOP – LIMA 2026

(Prepared by Brazil)

SUMMARY

This Information Note aims to invite the States of the SAM Region to participate in the ATFM SAM Portal Workshop, offered by the tool's development team and the Lima Office, with the objective of enhancing users' knowledge, familiarization, and improvement of the portal's interface functionalities.

References:

- ATFM Service Implementation Guide in the SAM Region 2021–2025
- SAM Region Operations Plan (OPSAM) 2021
- Doc 9971 – Manual on Collaborative Air Traffic Flow Management (3rd Edition)

1. Background

1.1 Due to the significant increase in air traffic volume in the SAM Region, various studies have been conducted to assess real growth rates and verify whether the existing infrastructure can safely and efficiently meet future demand.

1.2 In this context, Air Traffic Flow Management (ATFM) becomes increasingly relevant as it seeks to balance infrastructure capacity with operational demand, ensuring orderly, safe, and efficient air traffic. Accurate identification and analysis of these two elements—capacity and demand—are essential for effective planning and operational decision-making.

1.3 The evolution of traffic rates, especially with the rise in international flights and the growth of connectivity between SAM Region countries, requires integrated, automated, and coordinated solutions. This involves not only expanding physical infrastructure but also modernizing airspace management processes and adopting digital tools that enable Collaborative Decision Making (CDM).

1.4 Among these tools is the ATFM SAM Portal, a regional digital platform designed to integrate information flows between States, optimize airspace use, reduce delays, and prevent systemic overloads. Effective implementation depends on the involvement and understanding of stakeholders, including regulatory authorities, service providers, air operators, and international coordinators.

1.5 To support this effort, and with the aim of training professionals, strengthening regional cooperation, and promoting ATFM service harmonization across the SAM Region, Brazil proposes holding a Workshop focused on the ATFM SAM Portal.

1.6 The event will include a hands-on session in Lima, Peru, subject to scheduling availability, where participants will explore the tool, understand its functionalities, discuss the challenges and benefits of regional integration, and suggest real-time improvements.

1.7 Main Strategic Objectives:

- a) Align operational concepts across SAM States;
- b) Promote experience-sharing and best practices;
- c) Advance coordinated ATFM implementation;
- d) Reinforce a culture of data-driven decision-making; and
- e) Enhance tool efficiency, supporting optimal use of infrastructure capacity in line with current and future demand.

2. **Analysis**

2.1 Doc 9971 states that, in its initial application, ATFM does not require complicated processes, procedures, or tools. The basic goal of ATFM is to support stakeholders and deliver timely operational information to airspace users, air navigation service providers, and others.

2.2 Demand analysis is critical to compare it with available system capacity and ensure balance. Since SAM States already have ATFM experts, the Workshop aims to support these professionals in properly using the ATFM SAM Portal and to train them in developing and executing plans at strategic, pre-tactical, tactical, and post-operational levels. This approach will enable monitoring and assessment of ATFM measures, ensuring system limits are respected and contributing to continuous improvement in air traffic safety and efficiency in the regio.

2.3 The Workshop will last five days and include both theoretical and practical sessions. It will cover the Portal's functionality, structure, operational flows, and documentation. The objective is to provide participants with a comprehensive understanding of the processes already in place and those still under development, recognizing the Portal as a dynamic and evolving tool.

2.4 All ATFM phases—strategic, pre-tactical, tactical, and post-operational—will be addressed, with emphasis on the products generated and their practical application using the Portal.

2.5 It's important to note that in-person participation is crucial due to the hands-on operational training and real-time analyses related to ATFM phases. This practical approach is key to achieving the Workshop's goals and ensuring effective implementation across the SAM Region.

2.6 Workshop attendance will be limited due to the physical capacity of the Lima Office, which will host the real-time training sessions.

2.7 Workshop Objectives:

- a) Consolidate previous studies aimed at implementing a cross-border ATFM service in a progressive, standardized, and regionally aligned manner.
- b) Conduct practical activities using the ATFM Portal tools to define an initial system version that allows operational testing by ATFM units. Functional and operational improvements to the Portal will also be assessed.

2.8 Workshop Plan:

Section 1: Introduction to the ATFM SAM Portal

- a) Overview of the Portal’s structure and functionality
- b) System objectives: automation, interoperability, and decision support
- c) Available functionalities and modules in development
- d) Integration with ATFM phases and regional operations support
- e) Portal navigation: access, user profiles, basic functions

Section 2: Strategic Phase Support

- a) Capacity and demand data visualization and analysis
- b) Strategic air traffic planning tools
- c) Impact studies and scenario simulations
- d) Report and chart generation for strategic planning

Section 3: Pre-Tactical Phase Support

- a) Interface for D-7 to D-1 planning and early operation preview
- b) Event insertion and monitoring (e.g., outages, maintenance, local events)
- c) Capacity vs. demand dashboard for pre-tactical use
- d) Collaborative Daily ATFM Plan (PDA) building

Section 4: Tactical Phase Support

- a) Tools for D-Day operation monitoring
- b) Real-time execution tracking of PDA
- c) Monitoring of applied ATFM measures and effectiveness
- d) Operational event and incident logging
- e) Coordination and communication between units via Portal chat

Section 5: Post-Operational Phase Support

- a) Post-operation statistical analysis modules
- b) Consolidation of data for performance evaluation
- c) Key performance indicator (KPI) visualization (e.g., average delay, capacity usage)
- d) ATFM cycle feedback tools based on consolidated data
- e) System update planning and improvement identification

3. **Suggested actions**

- a) The meeting is invited to review the information presented and submit comments or suggestions that may support the development of the ATFM SAM Portal Workshop; and
- b) the Secretariat is requested to assess the feasibility of implementation through Project RLA/06/901.