



**Agenda Item 3: Report on activities and deliverables of the GESEA and Subgroups**

**SAM ATFM PORTAL**

(Presented by the Secretariat)

**SUMMARY**

This information paper presents the SAM ATFM Portal, under the coordination of Brazil (SAM ATFM Portal GADHOC), in the SAM Airspace Implementation Study Group (GESEA) Subgroup 3 (ATFM) on the development and implementation of the web-based tool for sharing data and information with the international ATM community, and for standardising the exchange of ATFM messages for the coordination of cross-border ATFM solutions between the States involved.

**References:**

- Guide for the implementation of the ATFM service in the SAM Region 2021 - 2025
- 2023 Operations Plan for the SAM Region (OPSAM)
- ICAO Doc 9973 - ATFM
- WP/2.7 - ATFM portal for the SAM Region

**1 Background**

1.1 On 22 June 2021, GESEA approved the creation of an ATFM Subgroup (SG3), since participants had identified the need for the consolidation of an integrated and more robust ATFM service in the Region.

1.2 The GESEA ATFM Subgroup contributed to the delivery of several products, such as the Operations Plan for the SAM Region, the South American ATFM operational briefings (BRISA), the Guide for the Implementation of the ATFM Service in the SAM Region 2021 - 2025, among others.

1.3 In 2022, the SG3 approved the creation of a working group for the development of the ATFM cross-border service (XB WG), with the objective of standardising and creating tools for ATFM coordination among the States of the Region.

1.4 In this context, in May 2023, during SAM/IG/29, in order to support the implementation of cross-border ATFM in the Region, Brazil presented the proposal to develop the SAM ATFM Portal, a web tool produced by GESEA, to serve as the basis for the South American cross-border ATFM service (WP/2.7 - ATFM portal for the SAM Region).

1.5 In July 2023, the Lima Office consulted with Member States regarding the SAM ATFM Portal initiative. In August 2023, the development of the SAM ATFM Portal, with the participation of Member States, was approved.

1.6 In October 2023, during SAM/IG/30, Brazil presented some completed tasks of the SAM ATFM Portal. Shortly after SAM/IG/30, in the same month of October, the SAM ATFM Portal Development Group (SAM ATFM GADHOC) was created within GESEA/SG3/ATFMXBORDER for the development of the SAM ATFM Portal, under the coordination of Brazil.

## 2 Discussion

2.1 The SAM ATFM Portal is a web application for collaboration among SAM States that allows the parties concerned to interact and exchange information on cross-border ATFM.

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

- promotion of regional integration of ATFM;
- exchange of messages among ATFM units in real time (chat);
- monitoring of 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;
- standardised production and publication of the ATFM daily plan;
- results of ATM performance indicators;
- other

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

2.4 The SAM ATFM Portal development timetable 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 the participating States (completed);
- b) workshop in Lima - Peru (ICAO) for training and validation in June 2024; and
- c) start of operations of the tool in October 2024.

<b>BUILD 1</b>		
<b>Nr.</b>	<b>Deliverables</b>	<b>Date</b>
1	Insertion of tactical measures	01/Apr/23
2	Definition of language	15/Jan/23
3	Design - Output	23/Aug/23
4	Chat creation	23/Aug/23
5	Generation of ADP by country	24/Aug/23
6	Link with OPMET bank	28/Aug/23
7	Structuring of tactical phase	30/Aug/23

8	Generation of SAM ADP (consolidated)	07/Sep/23
9	Structuring of strategic phase	10/Sep/23
10	Document screen	18/Sep/23
11	Login/logout screen	18/Oct/23
12	Uploading of documents	23/Oct/23
13	Setting of SAM portal parameters	12/Dec/23
14	Structuring of pre-tactical phase	31/Jan/24
15	Link to NOTAM bank	31/Jan/24
16	Workshop for training and validation of portal	03/Jun/24
17	Data uploading (demand)	8/Oct/24
18	Implementation of SAM portal	20/Oct/24
19	Structuring of post-operational phase	31/Oct/24
20	Creation of the resource tab	31/Oct/24

<b>BUILD 2</b>		
<b>Nr.</b>	<b>Deliverables</b>	<b>Date</b>
01	Link with AFTN / AMHS	1-Dec-24
02	Post-operational analysis reports (SAM or by country)	2025
03	Indicators	2025
04	Demand/capacity control dashboard (forecast/actual)	2025
05	Flight list analysis	2025
06	Temporary events	2025
07	Route playbook	2025
08	Extraordinary meeting	2025

*Note: It should be noted that new constructions will be defined in accordance with temporary meetings of the SAM ATFM PORTAL GADHOC, with input from the States. However, correction of possible errors or small enhancements will be ongoing, using the continuous improvement technique.*

2.5 Participating States will define which airports have information available on the SAM ATFM portal, in a harmonised manner with OP-SAM. Thus, data on demand, capacity, possible degradation of infrastructure, adoption of ATFM measures, NOTAMs of interest, among others, are available for use by the international ATM community through the Portal.

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

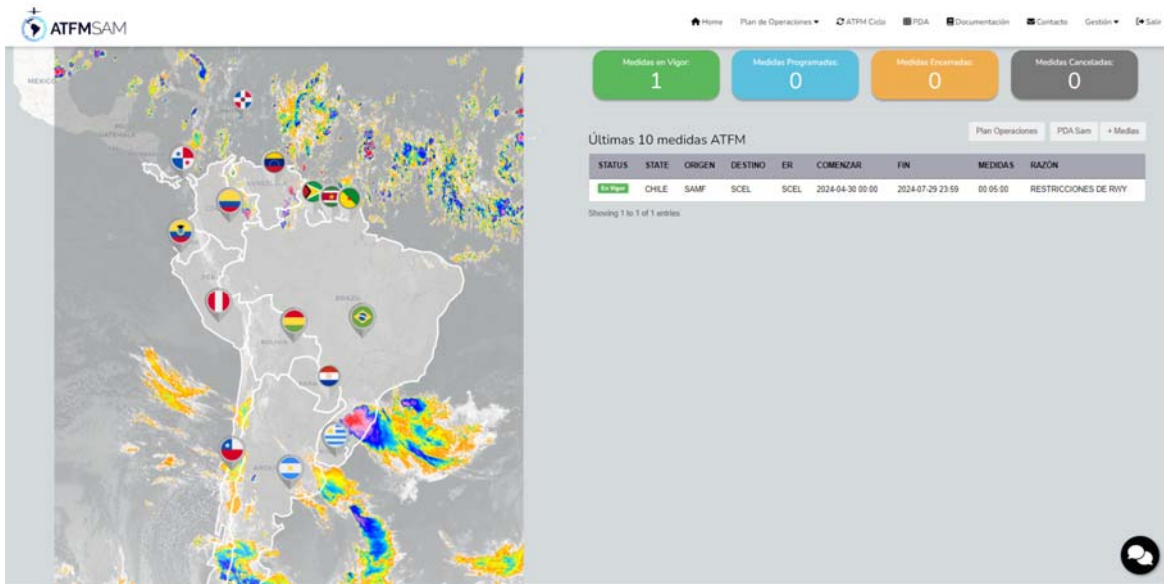
2.7 The SAM ATFM Portal will use the servers provided by ICAO Lima, with States coordinating development and possible future maintenance.

2.8 Using a secure environment (username and password), flow managers from participating States can exchange messages for the adoption of ATFM measures, which will be published in the external area of the portal and stored in a database for future reference.

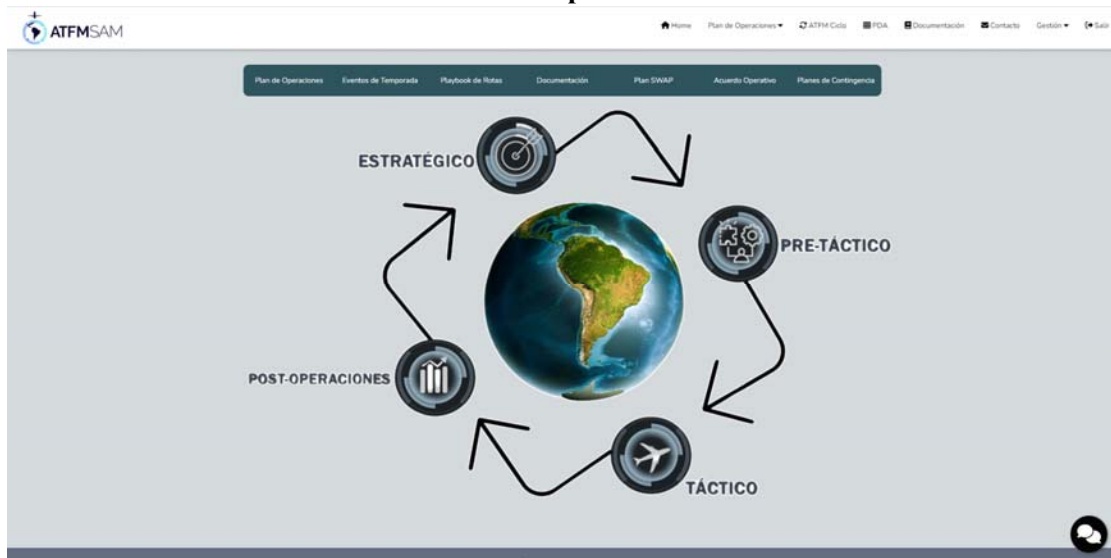
2.9 It should be noted that the SAM ATFM Portal, given the defined data structure, will function as a historical database of the SAM Region for consultation, research and analysis by all Member States.

2.10 SAM ATFM Portal project

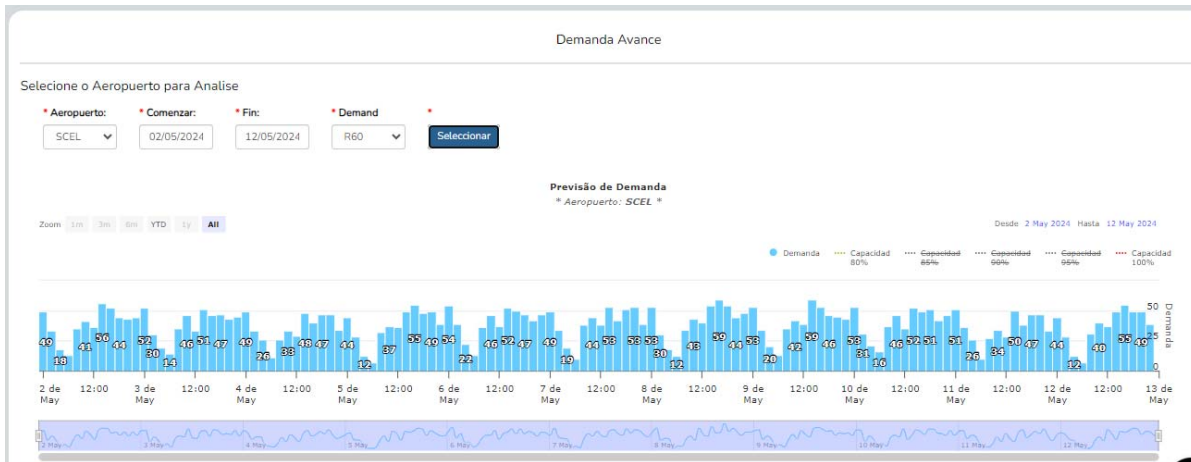
- Log-in screen:
  - a) Meteorology;
  - b) Scheduled ATFM (PDA) and tactical measures; and
  - c) Suggestion of a tactical ATFM action - (Chat Alert).



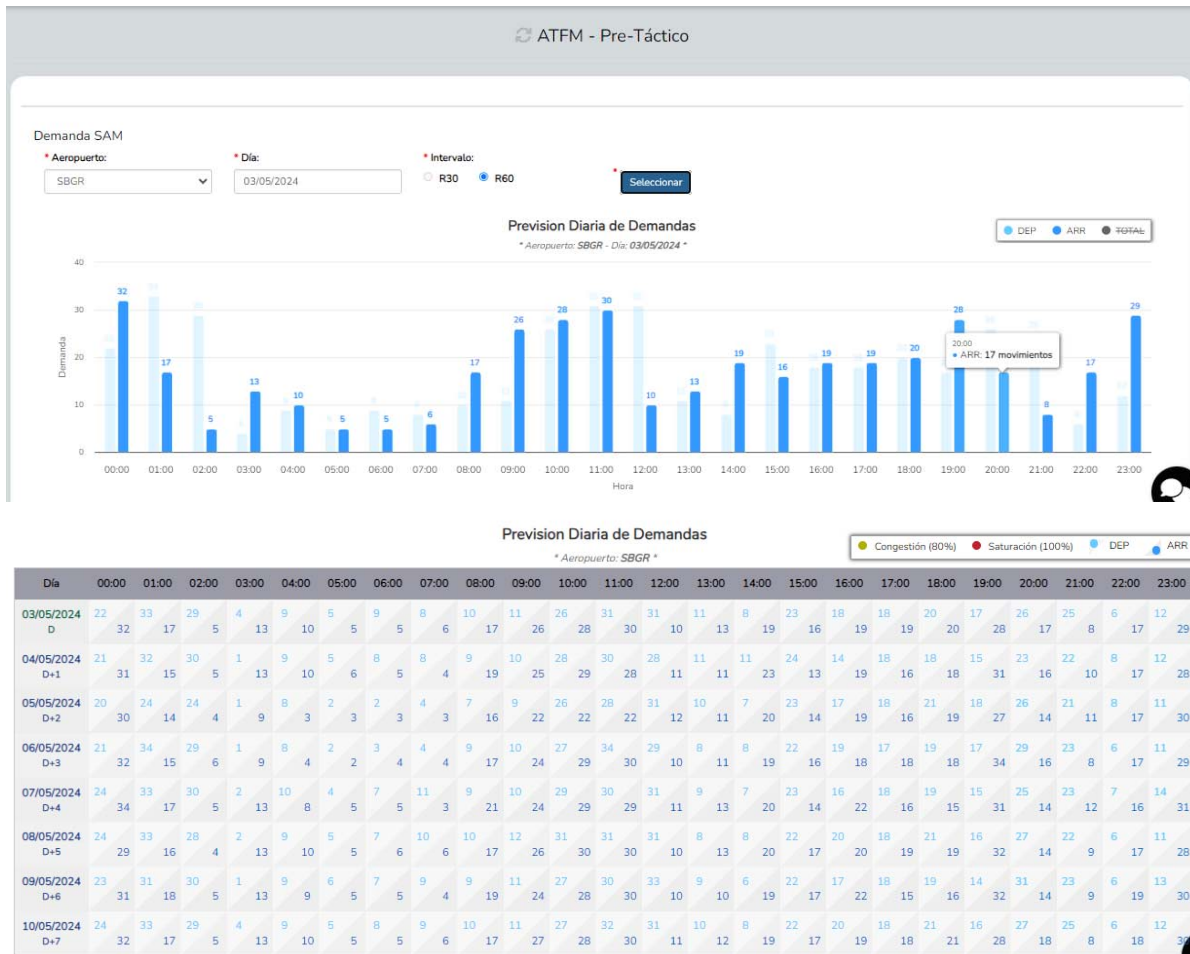
ATFM phases



Strategic phase



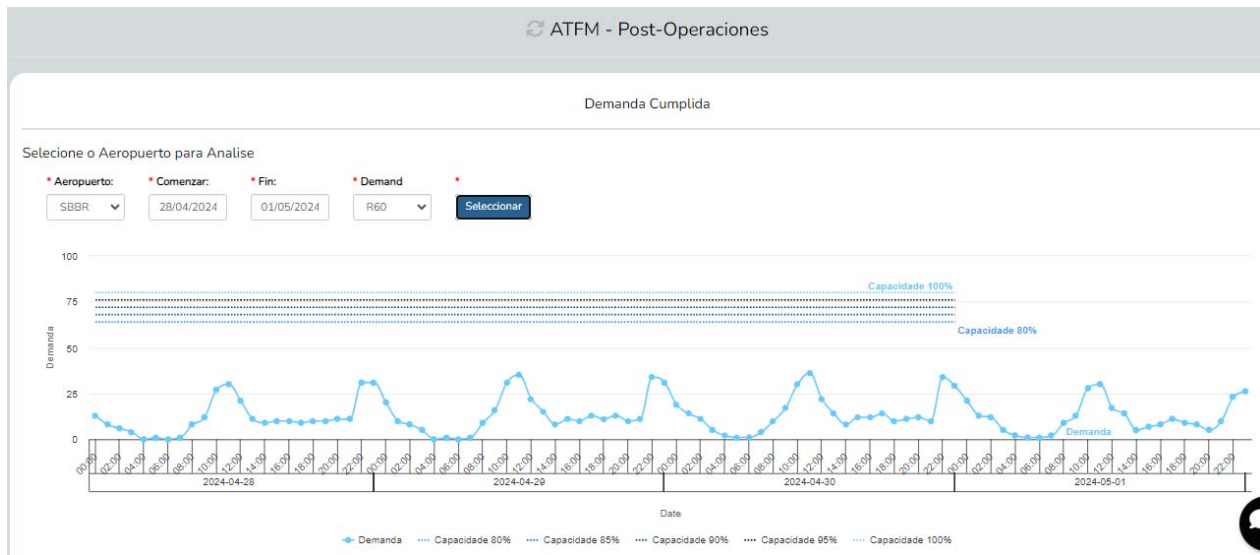
## Pre-tactical phase



## Tactical phase



### Post-Operations



- Generation of ADP – Source of demand - SAM Plan of Operations - Dashboard:
  - a) Weather forecast;
  - b) NOTAM;
  - c) Planning of ATFM measures; and
  - d) Generation of ADP.

CREA PDA

Asignatura:

SBMR
  SBGL
  SBGR

País:

TRINIDAD

**Historiología**

Prontuario - SBMR

Nombre:

Tarifa:

Fecha:

Prontuario - SBGL

Nombre:

Tarifa:

Fecha:

Prontuario - SBGR

TARIFAS VIGENTES DEBIDAS A SERVICIOS CANCELADOS POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.

2024-04-30 08:00:00 a 2024-05-01 00:00:00

Nombre:

Tarifa:

Fecha:

SBGR

Notam Seleccionadas

Id	Detalle	Asignatura	Mensaje	Comenzar	Fin
2024-01-01 00:00:00	SBGR	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	2024-01-01 00:00:00	2024-01-01 00:00:00
2024-01-01 00:00:00	SBGR	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	2024-01-01 00:00:00	2024-01-01 00:00:00
2024-01-01 00:00:00	SBGR	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	2024-01-01 00:00:00	2024-01-01 00:00:00
2024-01-01 00:00:00	SBGR	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	2024-01-01 00:00:00	2024-01-01 00:00:00
2024-01-01 00:00:00	SBGR	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	2024-01-01 00:00:00	2024-01-01 00:00:00
2024-01-01 00:00:00	SBGR	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	2024-01-01 00:00:00	2024-01-01 00:00:00
2024-01-01 00:00:00	SBGR	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	2024-01-01 00:00:00	2024-01-01 00:00:00
2024-01-01 00:00:00	SBGR	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	2024-01-01 00:00:00	2024-01-01 00:00:00
2024-01-01 00:00:00	SBGR	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	PLANEACION DE ACTIVIDADES DE PROTECCION ZONA LIMITADA. ASISTENCIA TECNICA POR EL CLIENTE EN EL MOMENTO DE LA CREACION DEL PLAN DE PROTECCION ZONA LIMITADA.	2024-01-01 00:00:00	2024-01-01 00:00:00

Status	State	ORIGIN	DESTINO	ER	CONDICION	FIN	MEDIDAS	RAZON	ACCION
Observación:									

[Ver Act](#)

- Coordination of ATFM measures (tactical / pre-tactical) – Cross-border;

Home | Plan de Operaciones | ATFM Ciclo | PDA | Documentación | Contacto | Gestión | Acceso | Salir

MENSURES ATFM

Status	State	ORIGIN	DESTINO	ER	Start	End	Measure	Reason	Action
Observación:									

ATFM Measure

**\* DEPENDENCIA:**

Select...

**\* Tipo de Elemento:**

Select...

**\* Origen:**

Select...

**\* Destino:**

Select...

**\* Elemento Regulado:**

Select...

**\* Tipo de Medida:**

...

**\* Millas (NM):**

...

**\* Minutos:**

...

**\* Nivel (ft):**

...

**\* Razón:**

Seleccione...

**\* Comenzar:**

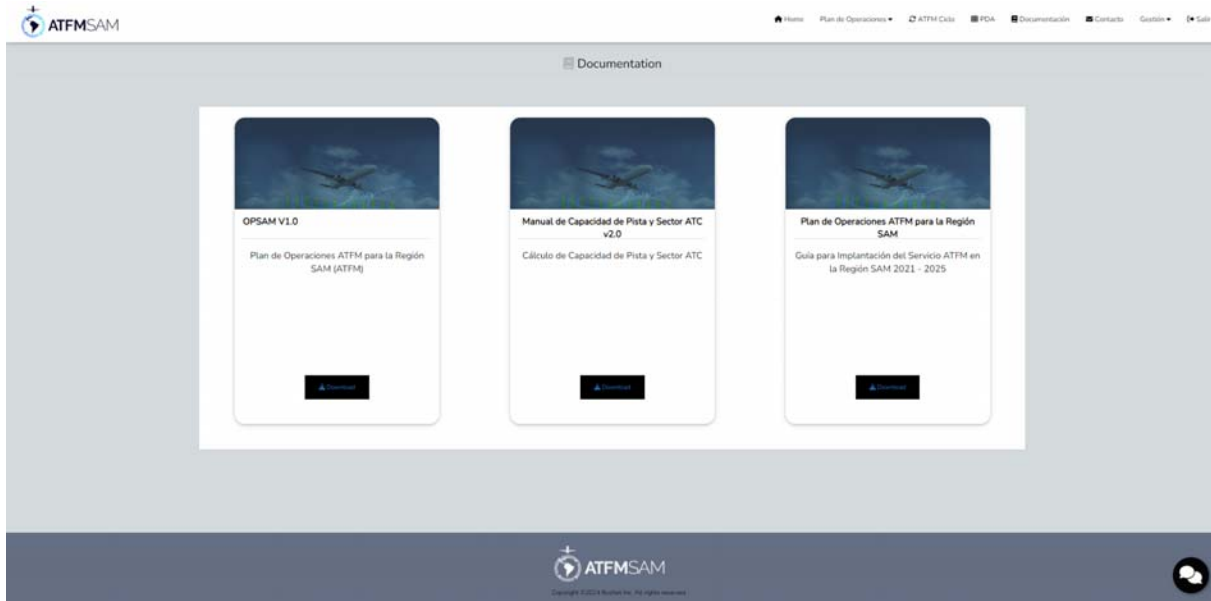
dd/mm/aaaa --:--

Comentarios:

\* Campos Obligatorios.

[Save](#)

- Documentation;



- Plan of operations - Dashboard;



• Management:



- a) Demand - manual adjustments;
- b) Capacity – capacity management (strategic, pre-tactical or tactical);
- c) Generation of ADP; and
- d) ATFM measures – request for ATFM measures.

3 **Suggested action**

3.1 The Meeting is invited to:

- a) take note of the activities of the SAM ATFM Portal; and
- b) discuss other issues that the Meeting may deem appropriate.

— END —