



Agenda

Item 1: ANS context (ATM/CNS) Global and Regional level

STATUS REVIEW OF CONCLUSIONS ADOPTED BY SAM/IG MEETINGS

(Presented by the Secretariat)

SUMMARY	
The purpose of this working paper is to allow the Meeting to review the status of implementation by SAM States of valid conclusions and pending activities made by the workshops/meetings of the SAM Implementation Group (SAM/IG).	
Reference	
<ul style="list-style-type: none">• Reports of the workshops/meetings of the SAM Implementation Group (SAM/IG).	
ICAO strategic objectives:	<i>A - Safety B – Air navigation capacity and efficiency E – Environmental protection</i>

1. Background

1.1 The workshops/meetings of the SAM Implementation Group have produced a series of agreements, which translated into conclusions showing the actions to be taken by the Implementation Group and/or by the States, as well as activities assumed by the working groups.

1.2 This working paper contains a review of valid conclusions, as well as pending activities of the workshops/meetings of the SAM Implementation Group SAM (SAM/IG).

2. Discussion

2.1 Previous SAM/IG meetings formulated conclusions and adopted a series of activities aimed at the implementation of various functions to allow the Region to evolve in a sustained manner towards the application of the global ATM concept of operations.

2.2 In addition, the review of the SAM/IG conclusions allows monitoring the development of GESEA and GT INTEROP initiatives based on a harmonized annual work plan.

Summary of the status of implementation of tasks and conclusions

2.3 To show the status of implementation of the conclusions and action taken, an updated list has been developed, shown in **Appendix A** to this working paper. The attached information refers to information available at the Secretariat with reference to each agenda item.

2.4 The list of conclusions and actions includes:

- a) tasks to be carried out and/or the corresponding conclusion in the areas under analysis;
- b) specific tasks leading to the accomplishment of the main task;
- c) expected results of each task;
- d) completion dates;
- e) parties responsible for their implementation;
- f) members who will support the task; and
- g) status of implementation of the task and, when so required for better understanding, an explanatory note on the status of implementation.

2.5 The Meeting should review each task identified and comment on the resulting specific tasks, consider the need for modifying the completion date, and the status of implementation of each task.

2.6 The Meeting must also complete the **follow up table** indicating the tasks under responsibility of the States and their corresponding progress, therefore, it was made available to the States in Word format (Spanish and English versions), in the following link:

<https://oaci.sharepoint.com/:f:/r/sites/SAM-CAR-ANS-SAMIG/Shared%20Documents/SAMIG/SAMIG27?csf=1&web=1&e=Fpr36i>

3. **Suggested action**

3.1 The meeting is invited to:

- a) Request the various sub-groups and working groups to analyse the tasks in their areas of expertise, as shown in **Appendix A** to this working paper, assess each task and its status of implementation, and complete the information as applicable;
- b) request States to complete the **follow up table** regarding tasks under responsibility of their respective administrations;
- c) if necessary, adopt the relevant course of action regarding each task; and
- d) discuss any other issues it may deem appropriate.

APPENDIX A

STATUS OF IMPLEMENTATION OF CONCLUSIONS AND/OR TASKS EMANATING FROM SAM/IG MEETINGS

(Information until SAM/IG/27, June 2021)

No.	Task to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
1. Implementation of performance-based navigation (PBN) in the SAM Region							
1-1	<p>Conclusion SAM/IG/14-6: Projects and/or action plans for PBN redesign of the main South American TMAs</p> <p>That SAM States:</p> <p>a) send the Project and/or Action Plans for PBN redesign of the main TMA(s) selected by their Administration, in order to complete the SAM PBN Project that is contained in Appendix J to this part of the Report, to the SAM Regional Office by 31 December 2014;</p> <p>b) send the corresponding updates to the aforementioned Project and/or Plans to the SAM Regional Office as soon as possible, so as to ensure harmonisation of activities under the SAM PBN Project.</p>	<p>Determination of the selected air spaces to be optimized with the implementation of PBN</p>	<p>Indicate the selected airspace for redesign or optimisation</p> <p>Report updates</p>	SAM/IG/25	STATES	RO/ATM	VALID
1-2	<p>Conclusion SAM/IG/21-01: Objectives of PBN implementation harmonized at regional and interregional level</p> <p>That SAM States, organisations, users, and stakeholders double efforts to meet regional and interregional performance-based air navigation implementation goals, based on GREPECAS projects, and contemplating the strengthening of national PBN implementation plans so that they include performance indicators and the use of recognised project management tools and methods.</p>	<p>Updating of regional PBN action plans and State action plans.</p> <p>Follow-up to PBN implementation and specific assistance to States.</p>	PBN implementation plans implemented	SAM/IG/26	STATES	RO/ATM	VALID

No.	Task to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
1-3	<p>Conclusion SAM/IG/25-04 Adoption of the Regional guide on the implementation of PBN visual runway procedures</p> <p>SAM States adopt the Regional guide on the implementation of PBN visual runway procedures developed by GESEA and, on this basis, approve national regulations on the implementation of these procedures.</p>	Adopt the Regional Guidance on PBN procedures for visual runway implementation	Deliver the national regulation on implementation of PBN procedures for visual runway	As soon as possible	STATES	RO/ATM	VALID
1-4	<p>Conclusion SAM/IG/25-05 Studies on RNAV visual flight procedures RVFP</p> <p>The GESEA SG2 conduct studies on the implementation of RNAV visual flight procedures (RVFP), in order to have available a harmonised regional guide aligned with ICAO provisions</p>	Deliver studies	Studies on RNAV Visual flight procedures RVFP	No later than October 2022	GESEA	RO/ATM	<p>VALID</p> <p>CANCELLED</p> <p>TASKS HAVE BEEN ASSIGNED TO THE WG PBN TO GESEA VISUAL TRACK THAT DEVELOPS CONCLUSION SAM/IG/25-04</p>
1-4	<p>Conclusion SAM/IG/27-01 Adoption of the SAM Airspace Operational Concept 2022-2026 (EC/SAM CONOPS)</p> <p>The States adopt the document SAM Airspace Operational Concept 2022-2026 (EC/SAM CONOPS), prepared with the purpose of supporting the studies of the specialists and ATM planners involved in the formulation of Volume III of the CAR/SAM ANP, facilitating the understanding of the methodology of Doc. 9883 assumed in the GANP.</p>	Adopt CONOPS EC/SAM	Take technical references and orientations to ATM and ANS regional planning	No later than October 2023	STATES	RO/ATM	APPROVED BY SAM/IG/27
1-5	<p>Conclusion SAM/IG/27-02 Adoption of the Roadmap 2022–2026: Performance-based optimisation of SAM airspace</p> <p>The States adopt the Roadmap 2022–2026: Performance-based optimisation of SAM airspace, and taking into account the metrics and deadlines stipulated in the document, review their national plan and further PBN implementation activities.</p>	Adopt the Roadmap 2022–2026: Performance-based optimisation	Apply technical references and orientations to PBN regional implementation. Aligned to implementation metrics.	No later than October 2023	STATES	RO/ATM	APPROVED BY SAM/IG/27

No.	Task to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
2. Contingency plans and air space efficiency							
2-1	<p>Conclusion SAM/IG/23-04: Procedure to be applied in case of radioactive clouds or accidental release of radioactive material</p> <p>That the civil aviation authority and/or ATS authorities, in coordination with meteorological authorities and/or meteorological watch offices, implement procedures related to the production of SIGMETs in order to:</p> <ul style="list-style-type: none"> a) Ensure that their ATS/MET cooperation agreements include the exchange of information on radioactive material in messages exchanged between ATS and MET units; b) Foresee training for ATS staff on procedures related to receiving information from the London VAAC concerning radioactive material; c) Coordinate the inclusion of the accidental release of radioactive material or the presence of radioactive clouds in their contingency plans. 	Develop and sign ATS MET cooperation agreements, including information related to radioactive material in exchange messages	ATS MET cooperation agreements signed.	SAM/IG/26	STATES	RO/ATM RO/MET	VALID
2-2	<p>Conclusion SAM/IG/21-02: Consolidation of the implementation of 40NM longitudinal separation minima between adjacent FIRs in the SAM Region and promotion of the Action Plan for the implementation of a 20NM separation</p> <p>That SAM States take action and apply procedures in the ACCs to consolidate the implementation of 40NM longitudinal separation minima and give priority to the execution of the action plan for the implementation of standard 20NM separation minima between adjacent FIRs in SAM continental airspace.</p>	Follow-up to the implementation of the 40NM separation, follow-up to the Action Plan for the implementation of 40 NM separation, follow-up to the Action Plan for the implementation of 20NM minima, and specific assistance to States.	Implementation of 20NM longitudinal separation minima in continental airspace.	SAM/IG/25	STATES	RO/ATM	VALID

No.	Task to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
2-3	CONCLUSION SAM/IG/25-01 Implementation of strategic direct routing - EDE SAM States analyse the guidance material prepared by the GESEA SG1 on the strategic direct routing (EDE) concept, which has been made available to the administrations, and coordinate with IATA and international airlines, as well as with adjacent States, for its implementation.	Follow up EDE implementation Fuel savings analysis, supported by airlines.	Delivery of AIC and/or SUP AIP by the states, on EDE	As soon as possible	STATES AIRLINES IATA	RO/ATM GESEA	VALID
2-4	CONCLUSION SAM/IG/25-02 Adoption of the guidelines of the SAM ATS contingency framework plan (MCATS/SAM) and alignment of national plans States adopt the guidelines of the SAM ATS Contingency Framework Plan developed by GESEA and start harmonising their national ATS contingency plans, so that the documentation required for regional activities on contingency plans and letters of ATS agreement, tentatively scheduled for 2021, may be available on a timely manner.	Follow up ATS contingency planning harmonization	Delivery of National ATS Contingency Plans harmonized to MCATS	No later than 15 April 2021	STATES	RO/ATM GESEA	VALID SUPERSEDED BY CONCLUSION SAM/IG/27-03
2-4	Conclusion SAM/IG/27-03 Adoption of amendment 1 of the Framework Plan for Contingencies ATS of the SAM Region (MCATS / SAM) and alignment of National Plans States adopt the guidelines of the ATS Contingency Framework Plan of the SAM Region, incorporating Amendment 1 covering Appendix E and Appendix I, aimed at completing and publishing their national ATS Contingency Plans, in order to having such documentation for the regional events on optimization of ATS coordination and Contingency Plans (SOUTH SAM and NORTH SAM), scheduled for the second half of 2022.	Follow up to the harmonization of ATS contingency plans	Issuance of National ATS contingency plans by States, aligned with MCATS.	No later than 31 July 2022	STATES	RO/ATM GESEA	APPROVED BY SAM/IG/27



No.	Task to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
2-5	<p>Conclusion SAM/IG/25-03 Activities for the development of the SAM ATM/CNS contingency framework</p> <p>States support GESEA activities towards a second stage of the MCATS, with a view to developing guidance material for a “SAM ATM/CNS Contingency Framework Plan”.</p>	<p>Prepare document for a harmonized implementation of ATM/CNS National Contingency Plans, with interfaces to AIM, MET, Airports, etc. services duly in line with neighbouring States, even if applicable, with CAR States.</p>	<p>ATM/CNS contingency Plan Framework Plan for SAM</p>	<p>No later than October 2023</p>	<p>GESEA</p>	<p>RO/ATM</p>	<p>VALID</p>
3. ATFM implementation							
3-1	<p>Conclusion SAM/IG/24-01: Procedures for developing and disseminating PDAs and development of ATFM Teleconferences</p> <p>ATFM services implemented in the SAM States provide for the development of the Daily Plan - PDA and coordinated the means and procedures for distribution or publication in repositories or websites on a regular basis, designating its focal points responsible for implementing this initiative. In addition, an agile procedure for developing ATFM Regional Teleconferences is studied and defined, with the goal of progressively achieving a daily periodicity.</p>	<p>Develop PDA, coordinating its dissemination with SAM regional ATFM dependencies and CAR if applicable.</p> <p>Sign or update ATFM agreement letters to formalize the exchange and its processes.</p> <p>Study media for ATFM teleconferences</p>	<p>PDA exchanged between SAM region dependencies and CAR if applicable</p>	<p>SAM/IG/26</p>	<p>STATES / ATFM FOCAL POINTS</p>	<p>RO/ATM</p>	<p>VALID</p>
3-2	<p>Conclusion SAM/IG/23-01: Implementation of ATFM measures in accordance with Doc 9971, and coordination in case of ATS contingencies</p> <p>That, SAM States prioritise the provision of the following for their ATS and ATFM services:</p> <p>a) Strengthen the functions of the flow management positions (FMPs) or units (FMUs), providing them with the prerogatives for coordinating and supporting ATS services;</p>	<p>To meet the provisions of ICAO Doc 9971 and the SARPs contained in Annex 11</p>	<p>Support to ATFM and ATC</p>	<p>SAM/IG/25</p>	<p>STATES</p>	<p>RO/ATM</p>	<p>VALID</p>

No.	Task to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
	<ul style="list-style-type: none"> b) Define the profile and skills of the ATFM staff, and provide programmes for initial and recurrent training for the Staff; c) Mandate that ATFM measures are strictly based on the Doc. 9971 to face situations generating capacity/demand imbalance, especially in cases of ATS capacity degradation caused by unforeseen events; d) Establish instructions and supervision H24, ensuring that ATFM measures has the less impact for international flights, and all ATFM measures are agreed with adjacent ATFM or ACC dependencies; e) Mandate the correct application of the ATFM process, from the ATM planning phase to the phase of operations analysis and performance control; and f) Exclude the use of NOTAM of Flow Control to deal with situations of demand/capacity unbalance, with the only exception of the initial response that an ACC may require in the first 12 hours of ATS contingency. 						
3-3	<p>Conclusion SAM/IG/26-01 Adoption of the ATFM Operations Plan (OPSAM)</p> <p>States adopt the ATFM Operations Plan (OPSAM) and provide for the ongoing participation of their ATFM services in the sharing of data for the Regional Dashboard of indicators and BRISA operational teleconferences. At the same time, each State should encourage the participation of airlines, airports and users in OPSAM.</p>	<p>Adjust ATC and airport capacity to the gradual increase in demand, and contribute to the recovery and sustainability of the air transport system at regional and global level in the new projected scenario. Also, to reinforce the use of KPIs in ATFM and ATM in general.</p>	<p>OPSAM plan implemented and generating KPIs.</p>	SAM/IG/29	STATES	RO/ATM	VALID
3-4	<p>Conclusion SAM/IG/26-02 Adoption of the Guide on the implementation of ATFM in the SAM Region 2022- 2026</p> <p>The States adopt the Guide for the implementation of ATFM in the SAM Region 2022-2026, harmonised with the objectives of regional integration of this service and taking into account</p>	<p>SAM States to implement national or crossborder ATFM services that are suited to the air traffic flow managed by their ATS services and that duly contribute to the</p>	<p>State following guidance of the document and reaching Phase IV of implementation.</p>	December 2025	STATES	RO/ATM	VALID

No.	Task to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
	the implementation phases and deadlines foreseen.	solution of demand/capacity imbalances in the Region.					
3-5	<p>Conclusion SAM/IG/27-04 Manual for the Calculation of Runway Capacity and ATC Sector (OPSAM)</p> <p>States adopt the Manual for the Calculation of Runway Capacity and ATC Sector, and carry out calculation activities in their airport headquarters and ATS units, recognizing that it is essential to have updated data to provide the ATFM service efficiently.</p>	Implementation of a common methodology for runway capacity and ATC sector calculation	Calculation of runway capacity and ATC sector updated	December 2026	STATES	RO/ATM	APPROVED BY SAM/IG/27
5. Operational implementation of new ATM automated systems and integration of the existing systems							
5-1	<p>Conclusion SAM/IG/25-06 Approval of the ATM/FPL Roadmap and of the format for acknowledgment (ACK) and rejection (REJ) of flight plans and associated messages</p> <p>That States:</p> <p>a) Approve the ATM/FPL Roadmap and the format for acknowledgment (ACK) and rejection (REJ) of flight plans and associated messages; and</p> <p>b) Adopt the guidelines and procedures of the ATM/FPL Roadmap.</p>	Adoption of the ATM/FPL roadmap by states	<p>- Roadmap implemented</p> <p>- Mitigate the occurrence of errors and duplication /multiplicity of flight plans, also providing feedback to the originators of FPLs and associated messages.</p>	SAM/IG/27	STATES	RO/CNS RO/ATM GT Interop	VALID



No.	Task to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
5-2	<p>Conclusion SAM/IG/21-03: Activities required in the AIDC pre-operational phase to reduce migration times to the operational phase</p> <p>That SAM States currently in the AIDC pre operational phase, in order to reduce time in this phase and migrate to the operational phase:</p> <ul style="list-style-type: none"> a) operate AIDC for a period of time to obtain the skills required for use thereof; b) monitor AIDC operation, recording errors made during the reporting, coordination and transfer stages; c) conduct statistical measurements based on the results of b), in order to identify the most frequent errors; d) based on the results of c), take the necessary action to mitigate errors; and e) report the results obtained in c) and d) and disseminate the lessons learned at events, teleconferences and AIDC implementation meetings of the SAM Region, so that they may serve as a reference for other AIDC implementations. 	Follow-up and coordination via teleconferences and meetings	AIDC operational connection completed	December 2019	STATES	RO/CNS and RO/ATM	VALID
5-3	<p>Conclusion SAM/IG/23-03: Adaptation of AMHS terminals of aeronautical meteorology users</p> <p>That, pursuant to the standard requiring the implementation of the exchange of OPMET messages in IWXXM GML format by 5 November, States should:</p> <ul style="list-style-type: none"> a. Adjust AMHS terminals of aeronautical meteorology users so that they may transmit and receive OPMET messages in IWXXM GML format b. Implement the necessary AMHS interconnections in order to facilitate the transmission and reception of OPMET messages in IWXXM GML format c. States in a position to do so should conduct OPMET message exchange trials in IWXXM GML format 	To meet the provisions of amendment 78 to ICAO Annex 3	Perform the tests and submit results	SAM/IG/26	SAM REGION STATES	ICAO SAM Office	<p>VALID</p> <p>SAM/IG/27 – until May 2022, the following States have implemented AIDC connections:</p> <ul style="list-style-type: none"> Brazil (9 out of 25); Chile (2 out of 11); Colombia (4 out of 13); Ecuador (3 out of 3); Panama (2 out of 6) and Peru (3 out of 6).

No.	Task to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
5-4	<p>Conclusion SAM/IG/25-07 Implementation of Space-based ADS-B under a regional technical cooperation project</p> <p>That the Secretariat:</p> <p>a) Consult Trinidad and Tobago on their interest in participating in a potential regional implementation of Space-based ADS-B, together with Chile and Panama, initially;</p> <p>b) Initiate the procedures, together with the Technical Cooperation Bureau (TCB), to enable the contracting of the service through Regional Project RLA/03/901; and</p> <p>c) Organise an ad-hoc group under Regional Project RLA/03/901, with those States interested in participating in the regional implementation of Space-based ADS-B, for the drafting of the necessary documents for a potential contracting of the service.</p>	<p>Provide States that expressed interest in the implementation of ADS-B Satellite support necessary for the procurement of the service.</p>	<p>Support concerned states and coordination with TCB ICAO</p>	<p>No later than SAM/IG/26</p>	<p>RO/CNS</p>	<p>Panama, Chile, Trinidad and Tobago and other interested states.</p>	<p>VALID</p> <p>SAM/IG/27 – Chile, Panama, Trinidad & Tobago intend to resume, after recovery of normal flights post pandemic</p>
5-5	<p>Conclusion SAM/IG/26-03 Revision of the CNS tables of Vol. II of the CAR/SAM Air Navigation Plan and support in the elaboration of Vol. III of the ANP CAR/SAM, on the CNS topics</p> <p>a) The CNS/ANP Subgroup, activated at the SAM/IG/26 Meeting, will carry out the revision of the CNS tables contained in Vol. II of the CAR/SAM Air Navigation Plan, referring to the information of the SAM States and provide support in the elaboration of Vol. III of the ANP CAR/SAM, on the CNS topics;</p> <p>b) The Secretariat circulates a letter to SAM States nominating participants in the CNS/ANP Subgroup; and</p> <p>c) SAM States nominate representatives in sufficient numbers to perform the tasks assigned to the CNS/ANP Subgroup.</p>	<p>Update the information of Vol. II of the CAR/SAM Air Navigation Plan and support the elaboration of ANP CAR/SAM Vol. III, concerning CNS Planning aspects.</p>	<p>ANP CAR /SAM; Vol. II Update and Vol. III elaborated</p>	<p>SAM/IG/29</p>	<p>STATES</p>	<p>RO/ATM</p>	<p>VALID</p> <p>SAM/IG/27 – First Subgroup Teleconference: 26 May 2022</p>