



**Agenda**

**Item 1:**

**Review of the status of conclusions and actions**

**STATUS REVIEW OF CONCLUSIONS ADOPTED BY SAM/IG MEETINGS**

(Presented by the Secretariat)

<b>SUMMARY</b>	
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).	
<b>Reference</b>	
<ul style="list-style-type: none"> <li>• Reports of the workshops/meetings of the SAM Implementation Group (SAM/IG).</li> </ul>	
<b>ICAO strategic objectives:</b>	<i>A - Safety</i> <i>B – Air navigation capacity and efficiency</i> <i>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 actions taken, the updated list in **Appendix A** of this study note has been prepared. The attached information refers to the information available in the Secretariat relating to each of the items on the agenda. Appendix A information is also displayed at the following link:

[https://oaci.sharepoint.com/:f:/r/sites/SAMIG-Grupodeimplementacin/Shared%20Documents/REUNIONES%20SAMIG/REUNIONES%20SAM\\_IG/1%20TABLAS%20CONCLUSIONES%20SAMIG/1%20TABLA%20resultado%20de%20SAMIG%2031?csf=1&web=1&e=kqbk2v](https://oaci.sharepoint.com/:f:/r/sites/SAMIG-Grupodeimplementacin/Shared%20Documents/REUNIONES%20SAMIG/REUNIONES%20SAM_IG/1%20TABLAS%20CONCLUSIONES%20SAMIG/1%20TABLA%20resultado%20de%20SAMIG%2031?csf=1&web=1&e=kqbk2v)

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 Each State, for its own follow-up, must also complete the Tables where the tasks and their corresponding progress are indicated. From SAM/IG/28, the Tables are made available in Word format (Spanish and English versions), at the following link:

[https://oaci.sharepoint.com/:f:/r/sites/SAMIG-Grupodeimplementacin/Shared%20Documents/REUNIONES%20SAMIG/REUNIONES%20SAM\\_IG/1%20TABLAS%20CONCLUSIONES%20SAMIG?csf=1&web=1&e=T4S645](https://oaci.sharepoint.com/:f:/r/sites/SAMIG-Grupodeimplementacin/Shared%20Documents/REUNIONES%20SAMIG/REUNIONES%20SAM_IG/1%20TABLAS%20CONCLUSIONES%20SAMIG?csf=1&web=1&e=T4S645)

### 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

(Updated at SAM/IG/29, May 2022)

No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
<b>1. Airspace optimisation and implementation of performance-based navigation (PBN) in the SAM Region</b>							
1-1	<p><b>Conclusion SAM/IG/30-01: Optimization of the airspace in SAM Region based on the implementation of APTA and FRTO modules</b></p> <p>The States, through actions of the Air Navigation Directorates/Managements/Headquarters, promote the implementation of GANP modules; Enhanced Arrival/Departure Operations (APTA) and Enhanced Operations through Optimized En-route Trajectories (FRTO), facilitating, within the scope of RLA/06/901:</p> <ul style="list-style-type: none"> <li>a) resources and specialists for activities and studies related to the implementation of these modules;</li> <li>b) support for the development of regional documents and technical materials;</li> <li>c) support for training and capacity building on APTA and FRTO implementations;</li> <li>d) shared data for the calculation of Regional KPI indicators;</li> <li>e) support to activities for the formulation and management of National Air Navigation Plans;</li> <li>f) support to the activities of the ANP CAR/SAM Regional Plan;</li> <li>g) and among other elements that may be required</li> </ul>	Updating of Regional FRTO action plans and States' APTA action plans	APTA and FRTO plans implemented	Period 2024-2027	STATES	RO/ATM	<b>VALID</b>
1-2	<p><b>Conclusion SAM/IG/25-04 Adoption of the Regional guide on the implementation of PBN visual runway procedures</b></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 guide on implementation of PBN procedures for visual runways	Publish the national regulation on implementation of PBN procedures for visual runways	As soon as possible	STATES	RO/ATM	<b>VALID</b>



No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
1-3	<p><b>Conclusion SAM/IG/27-02 Adoption of the 2022–2026 Roadmap: Performance-based optimisation of SAM airspace</b></p> <p>That States adopt the 2022–2026 Roadmap: Performance-based optimisation of SAM airspace, and align their national PBN implementation plan based on the metrics and deadlines set forth in the document</p>	Adopt the performance-based optimisation roadmap	Use technical references and guidance for regional PBN implementation. Alignment with implementation metrics.	No later than October 2023	STATES	RO/ATM	<b>VALID</b>
1-4	<p><b>Conclusion SAM/IG/28-01 Improvements to the ATS letters of operational agreement, with regard to their content, implementation, validity and subscription process</b></p> <p>That:</p> <p>a) SAM/IG and its contributory bodies promote studies and activities for the development of regional guidance material on criteria for the efficient and safe use of ATS LOAs, with regard to their content, implementation, validity and subscription process</p> <p>b) ATS service providers and/or competent ATS authorities, while implementing the recommendation of item a) above, coordinate and manage with their counterparts the review and update of inter-State ATS LOAs, if possible, once (01) a year.</p>	<p>Drafting of regional guidance material on the management of ATS operational agreements (ATS LOAs)</p> <p>Assistance and follow-up by the Secretariat for the review and updating of ATS LOAs.</p>	<ul style="list-style-type: none"> <li>Regional guidance material on management of ATS LOAs</li> <li>ATS LOAs reviewed and updated, if possible, once a year</li> </ul>	SAM/IG/31	GESEA STATES		<b>VALID</b>
<b>2. Contingency plans and procedures</b>							

No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
2-1	<p><b>Conclusion SAM/IG/23-04: Procedure to be applied in case of radioactive clouds or accidental release of radioactive material</b></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"> <li>a) Ensure that their ATS/MET cooperation agreements include the exchange of information on radioactive material in messages exchanged between ATS and MET units;</li> <li>b) Foresee training for ATS staff on procedures related to receiving information from the London VAAC concerning radioactive material;</li> <li>c) Coordinate the inclusion of the accidental release of radioactive material or the presence of radioactive clouds in their contingency plans.</li> </ul>	Develop and sign ATS MET cooperation agreements, including information on radioactive material in messages exchanged.	ATS MET cooperation agreements signed.	SAM/IG/26	STATES	RO/ATM RO/MET	<b>VALID</b>
2-2	<p><b>CONCLUSION SAM/IG/25-01 Implementation of strategic direct routing - EDE</b></p> <p>SAM States analyse the guidance material prepared by GESEA SG1 on the strategic direct routing (EDE) concept, which has been made available to the administrations, and coordinate its implementation with IATA and international airlines, as well as with adjacent States.</p>	<p>Follow-up to EDE implementation</p> <p>Fuel savings analysis provided by airlines.</p>	Issuance of AIC and/or SUP AIP on EDE by States	As soon as possible	STATES, AIRLINES, IATA	RO/ATM GESEA	<b>VALID</b>
2-3	<p><b>Conclusion SAM/IG/27-03 Adoption of amendment 1 of the SAM ATS Contingency Framework Plan (MCATS / SAM) and alignment of national plans</b></p> <p>That States adopt the guidelines of the SAM ATS Contingency Framework Plan, incorporating Amendment 1 that includes Appendix E and Appendix I, in order to finalise and publish their national ATS contingency plans, and have that documentation available for regional events on optimisation of ATS coordination and contingency plans (SOUTH SAM and NORTH SAM), scheduled for the second half of 2022.</p>	Follow-up to the harmonisation 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	<b>VALID</b>

No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
2-4	<p><b>Conclusion SAM/IG/25-03 Activities for the development of the SAM ATM/CNS contingency framework plan</b></p> <p>That 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 harmonised implementation of ATM/CNS national contingency plans, with interfaces to AIM, MET, airport services, etc. duly agreed with neighbouring States, including CAR States, if applicable.</p>	<p>SAM ATM/CNS contingency framework plan</p>	<p>No later than October 2023</p>	<p>GESEA</p>	<p>RO/ATM</p>	<p><b>VALID</b></p>
<b>3. ATFM implementation</b>							
3-1	<p><b>Conclusion SAM/IG/23-01: Implementation of ATFM measures in accordance with Doc 9971, and coordination in case of ATS contingencies</b></p> <p><b>That:</b> SAM States prioritise the following for their ATS and ATFM services:</p> <ul style="list-style-type: none"> <li>a) Strengthening the functions of flow management positions (FMPs) or units (FMUs), granting them powers to coordinate and support ATS services;</li> <li>b) Definition of the profile and skills of ATFM staff, and delivery of initial and recurrent training programmes for that staff;</li> <li>c) Mandating that ATFM measures be strictly based on Doc 9971 to address situations generating capacity/demand imbalances, especially in cases of ATS capacity degradation caused by unforeseen events;</li> <li>d) Establishment of instructions and H24 monitoring to ensure that ATFM measures have the least possible impact on international flights, and all ATFM measures are agreed with adjacent ATFM or ACC units;</li> <li>e) Mandating the correct application of the ATFM process, from ATM planning to the operational analysis and performance control phase; and</li> </ul>	<p>Comply with the provisions of ICAO Doc 9971 and SARPs contained in ICAO Annex 11</p>	<p>Support for ATFM and ATC</p>	<p>SAM/IG/25</p>	<p>STATES</p>	<p>RO/ATM</p>	<p><b>VALID</b></p>

No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
	<p>f) Ruling out the use of flow control NOTAMs to deal with demand/capacity imbalances, with the only exception of the initial response that an ACC may require in the first 12 hours of an ATS contingency.</p>						
3-2	<p><b>Conclusion SAM/IG/26-01 Adoption of the ATFM Operations Plan (OPSAM)</b></p> <p>That 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 in BRISA operational teleconferences. Also, that each State 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, reinforce the use of KPIs in ATFM and ATM in general.</p>	<p>OPSAM implemented and KPIs generated.</p>	<p>SAM/IG/29</p>	<p>STATES</p>	<p>RO/ATM</p>	<p><b>VALID</b></p>
3-3	<p><b>Conclusion SAM/IG/26-02 Adoption of the Guide for the implementation of ATFM in the SAM Region 2022- 2026</b></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 the implementation phases and deadlines foreseen.</p>	<p>SAM States to implement national or cross-border ATFM services that are suited to the air traffic flow managed by their ATS services and that duly contribute to the solution of demand/capacity imbalances in the Region.</p>	<p>States applying the Guide and reaching Phase IV of implementation.</p>	<p>December 2026</p>	<p>STATES</p>	<p>RO/ATM</p>	<p><b>VALID</b></p>

No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
3-4	<p><b>Conclusion SAM/IG/27-04 Adoption of the Manual on Calculation of Runway and ATC Sector Capacity</b></p> <p>States adopt the Manual on Calculation of Runway and ATC Sector Capacity, and carry out calculation activities at their airports and ATS units, recognising that it is essential to have updated data to provide efficient ATFM services.</p>	Implementation of a common methodology for runway and ATC sector capacity calculation in the SAM Region	Runway and ATC sector capacity calculations updated.	December 2026	STATES	RO/ATM	<b>VALID</b>

No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
<b>4. UAS Air Traffic Management (UTM)</b>							
4.a.1	<p><b>Conclusion SAM/IG/30-02: Activities for the future implementation of Air Traffic Management for UAS (UTM)</b></p> <p>That States, through actions of the Air Navigation Directorates/Managements/Headquarters, nominate groups of ATM/CNS specialists and define activities to:</p> <ul style="list-style-type: none"> <li>a) participate in the activities of the SRVSOP on the development of the CONOPS UTM and the regulatory set LAR 100 – 101 – 102;</li> <li>b) Support SAM/IG and its contributing bodies in the preparation of Manuals and Technical Guides for the UTM;</li> <li>c) conduct regional training activities on UTM, UAS/RPAS;</li> <li>d) and periodically report to SAM/IG on access to airspace by UAS/RPAS, as well as advances in the use of UAS/RPAS in the calibration of navigation aids and other aerial work applications.</li> </ul>	<p>Active participation in SRVSOP activities regarding CONOPS UTM development and LAR 100-101-102 set; support to SAM/IG and its contributing bodies in the elaboration of manuals and technical guides for UTM. Carry out training regional activities on UTM, UAS/RPAS.</p>	<p>Periodic reports on access to air space by UAS/RPAS, as well as advances in the use of UAS/RPAS in the calibration of navigation aids and other applications of aerial work.</p>	SAM/IG/33	STATES	RO/ATM	<b>VALID</b>



No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
4.b.1	<p><b>Conclusion SAM/IG/30-03: Treatment of LHD events in ACCs, for mitigation and elimination of hotspot points</b></p> <p>That the States, through actions of the Air Navigation Directorates/Managements/Headquarters, stipulate:</p> <ul style="list-style-type: none"> <li>a) Follow-up on the results of the meetings of the GREPECAS Scrutiny Group – GTE, and follow-up on the implementation of its recommendations and conclusions;</li> <li>b) Reinforce the training of ATS personnel and supervisors, and review the ATS/FPL procedures and manuals of the ACC sectors involved in the generation of LHDs;</li> <li>c) Establish by means of LOA ATS the preliminary investigation within 48 hours of the LHD events, involving the two ACCs, in order to provide for immediate mitigation if necessary;</li> <li>d) Implement, with high priority, all connections of the AIDC systems in the ACCs;</li> <li>e) Close VHF communications and ATS surveillance coverage gaps at all air traffic transfer points between ACCs;</li> <li>f) and promote a culture of safety.</li> </ul>	<p>Follow-up to the results of the GREPECAS GTE Scrutiny Group meeting and follow-up to the implementation of its conclusions and recommendations. ATS personnel and supervisors training and review</p> <p>, and follow-up to the implementation of its recommendations and conclusions. Training of ATS personnel and supervisors, and review of ATS/FPL procedures and manuals for the ACC sectors involved in LHD generation.</p>	<p>ATS LOAs implemented for the preliminary investigation within 48 hours of LHD events, involving the two ACCs, to provide for immediate mitigation if applicable. All connections of the AIDC systems in the ACCs, implemented. Full coverage of VHF communications and ATS surveillance at all air traffic transfer points between ACCs</p>	SAM/IG/33	STATES	RO/ATM	<b>VALID</b>
<b>5. Operational implementation of new automated ATM systems and integration of the existing systems</b>							
5-1	<p><b>Conclusion SAM/IG/25-06 Approval of the ATM/FPL Roadmap and of the format for flight plan acknowledgment (ACK) and rejection (REJ) messages and associated messages</b></p> <p>That States:</p> <ul style="list-style-type: none"> <li>a) Approve the ATM/FPL Roadmap and the format for flight plan acknowledgment (ACK) and rejection (REJ) messages and associated messages; and</li> <li>b) Adopt the guidelines and procedures of the ATM/FPL Roadmap.</li> </ul>	<p>Adoption of the ATM/FPL Roadmap by States.</p>	<ul style="list-style-type: none"> <li>- Roadmap implemented</li> <li>- Mitigate the occurrence of errors and duplication /multiplicity of flight plans, also providing feedback to the originators of FPLs and associated messages.</li> </ul>	SAM/IG/27	STATES	RO/CNS and RO/ATM Interop TF	<b>VALID</b>



No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
5-2	<p><b>Conclusion SAM/IG/21-03: Activities required in the AIDC pre-operational phase to reduce migration times to the operational phase</b></p> <p><b>That:</b> 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"> <li>a) operate AIDC for the period of time required to acquire the skills for its operation;</li> <li>b) monitor AIDC operation, recording errors made during the reporting, coordination and transfer stages;</li> <li>c) conduct statistical measurements based on the results of b), in order to identify the most frequent errors;</li> <li>d) based on the results of c), take the necessary action to mitigate errors; and</li> <li>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.</li> </ul>	Follow-up and coordination via teleconferences and meetings	AIDC operational connection achieved	December 2019	STATES	RO/CNS and RO/ATM	<b>VALID</b>
5-3	<p><b>Conclusion SAM/IG/23-03: Adaptation of AMHS terminals of aeronautical meteorology users</b></p> <p>That, pursuant to the requirement to implement the exchange of OPMET messages in IWXXM GML format by 5 November, States:</p> <ul style="list-style-type: none"> <li>a). Adapt AMHS terminals of aeronautical meteorology users so that they may transmit and receive OPMET messages in IWXXM GML format</li> <li>b). Implement the necessary AMHS interconnections in order to facilitate the transmission and reception of OPMET messages in IWXXM GML format</li> <li>c). If in a position to do so, conduct OPMET message exchange trials in IWXXM GML format</li> </ul>	To comply with the provisions of Amendment 78 to ICAO Annex 3.	Conduct tests and share results	SAM/IG/26	SAM STATES	ICAO SAM OFFICE	<b>VALID</b>
5-4	<p><b>Conclusion SAM/IG/26-03 Revision of CNS tables of Vol. II of the CAR/SAM Air Navigation Plan and support in the drafting of Vol. III of the CAR/SAM ANP on CNS topics</b></p> <ul style="list-style-type: none"> <li>a) That the CNS/ANP Subgroup, activated at the SAM/IG/26 meeting, review the CNS tables contained in Vol. II of the CAR/SAM Air Navigation Plan regarding information of SAM</li> </ul>	Update the information in Vol. II of the CAR/SAM Air Navigation Plan and support the drafting of Vol. III of the CAR/SAM ANP concerning	CAR /SAM ANP;  Vol. II updated and Vol. III developed	SAM/IG/29	STATES	RO/ATM	<b>VALID</b>

No.	Tasks to be developed	Specific tasks	Deliverables	Completion date	Responsible party	Members supporting the task	Status of implementation
	States, and provide support in the drafting of Vol. III of the CAR/SAM ANP on CNS topics; b) The Secretariat send a letter to SAM States for the nomination of participants in the CNS/ANP Subgroup; and c) SAM States nominate representatives in sufficient numbers to perform the tasks assigned to the CNS/ANP Subgroup.	CNS planning aspects.					