



Third Meeting of the Steering Group of the Improvement of Air traffic Services over the South Atlantic (SAT/SG3)

Virtual, 8-10 December 2025.

Agenda Item 3: Review of the subsidiary bodies' activities.

Outcomes of the fifth and sixth meetings of the SAT Safety Oversight Group - SAT SOG

(Presented by Secretariat)

SUMMARY	
This working paper presents the outcomes of the SAT SOG/05 and SAT SOG/06 meetings for consideration	
Action by the Meeting is in paragraph 3.	
<i>Strategic Objectives</i>	A: Safety B: Capacity and Efficiency E: Environment protection

1 INTRODUCTION

1.1 The fifth meeting of the South Atlantic Safety Oversight Group (SAT SOG) was organized together with the fifth South Atlantic Implementation Management Group (SAT IMG/5) meeting in a combined format from 7 to 11 April 2025, in Lima, Peru. The full report of SAT SOG/5 & IMG/5 meetings is provided at **Appendix A to WP03A**.

1.2 The sixth meeting of the South Atlantic Safety Oversight Group (SAT SOG/6) was organized as a virtual meeting on 18, 19, and 21 November 2025. The summary of discussions for the SAT SOG/06 meeting is being prepared. A Table highlighting the main topics of the meeting, agreements and action Items is presented at **Appendix A to this paper**.

2. DISCUSSION

SAT SOG/5

2.1. The SAT SOG/05 meeting were held in Lima, Peru, from 7 to 11 April 2025, to continue safety optimization activities, within the scope of the ATS Continuous Improvement Group on the South Atlantic (SAT).

2.2 Updates to SAT documents were reviewed and the work on the delineation of the SAT area was discussed, which was further detailed in the SAT IMG / SAT SOG coordination activities. The meeting approved the first SAT OESB version 1. The SAT SOG action item list and decisions table were reviewed. One new decision was approved regarding SAT OESB bulletin. See Table below.

SAT SOG/6

2.3 The SAT SOG/6 (Virtual, 18, 19 ad 21 November) started with the election of Chairperson Mr. Jorge Avila (Brazil) and Vice-chair Mr. Ian Gomez (Trinidad and Tobago). For details see SAT SG/3 WP/06A.

2.4 The meeting analyzed the situation of GNSS radio interferences, that is increasingly affecting air navigation. The SAT SOG decided to monitor, together with SAT IMG, IATA and all stakeholders, this issue and define how to include guidance for pilots in the next OPS bulletin or OESB bulletin.

2.5 The RMA Harmonization/Standardization project team (RMA H/S PT) presented results from the RMA Meeting held this year in Rio de Janeiro, Brazil. There was a focus on height monitoring using ADS-B and the tool used. The PT will review the outcomes of this last workshop and discuss the need to establish a follow-on during its next meeting.

2.6 The ASR PT reported the progress and achievements of the project team in 2024. Moreover, presented the challenges the team is facing with data and training. Regarding the safety data and information challenge, it was first decided during SAT SOG 4 (Virtual, 01 to 04 October 2024) to work with the available data from the monitoring agencies: ARMA, CARSAMMA, NAARMO and SATMA. It was further decided to narrow down the scope of the first draft of the SAT ASR to take into consideration the data of the EUR-SAM corridor based on data provided by SATMA. Thus, the available 2024 data issued by SATMA were integrated in the first SAT ASR draft. The remaining data will be progressively taken into consideration. The first draft of the SAT ASR is presented in **Appendix B to this paper**.

2.7 On the SAT airspace scrutiny activities, the meeting analyzed challenges and alternatives within the work activities of SAT SOG. Questions about how efforts should be directed to ensure workflow were clarified. The meeting was reminded of the discussions and conclusions on this topic approved in previous meeting.

2.8 For the next steps, it was recommended to increase standardization among data collection methods to facilitate consistent analysis and for the identification of performance trends when this information is presented at SAT SOG meetings on regular basis.

2.9 The Group agreed to three (3) new actions items. None of the SAT SOG Decisions have been changed.

2.10 The next SAT SOG/07 meeting would be held in April 2026, potentially in Cabo Verde (to be confirmed) under a combined agenda with SAT IMG or in a back-to-back meeting, depending on analysis of SAT Steering group and SAT IMG group.

2.11 The SAT SOG/08 meeting would be organized in October or November 2026, in virtual mode.

2.12 SAT SOG ACTION ITEMS AND DECISIONS

ID #	ACTION	WHO	WHEN	STATUS	Status and Notes by SAT SOG/04	
SOG R-01 (RECURRENT)	The SAT SOG group Delegates were urged to prepare and address the working papers to the Secretariat within the deadlines defined in the convening letter.	All SAT members	Every meeting	Secretariat reminded to the meeting the said requirement.	RECURRENT The Secretariat stressed that, in general, the SAT SOG 03 working papers were received within deadlines. Invite members to deliver papers on time, and clearly prepared.	RECURRENT
SOG01-06	Draft a fast-track procedure for the SAT GROUP taking into account the best practices of the document NAT SPG HANDBOOK - DOC 001. The study must identify the differences between NAT and SAT in terms of structures and	Secretariat	SAT SOG/02		SAT SOG/4: ON GOING	ON GOING The fast-track procedure feasibility is considered during preparation of Handbook amendments SAT SOG/6: Secretariat will prepare a workflow.

SAT/SG3 – WP/03B

ID #	ACTION	WHO	WHEN	STATUS	Status and Notes by SAT SOG/04	
	resources.					
SOG01-14	Identify the training gaps in the SAT members States in order to define a programme that fulfil the members necessities. Survey on oceanic operation training needs.	Trinidad and Tobago Secretariat	Q3, Q4 2023	Not yet started (When: Q1 - Q2 2024)	NOT YET STARTED To be coordinated with SOG CO-CHAIR	NOT YET STARTED

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ID #	ACTION	WHO	WHEN	STATUS	Status and Notes by SATSOG04	
SOG02-05	SAT RMA H/S PT to continue with elaboration of the “Know your space” analysis, version 0.1.b (Technical edit) and 0.1 (Draft), in support of the delimitation of SAT airspace.	SAT RMA H/S PT SAT members Secretariat	Progress report to SAT SOG/03 and SAT SOG/04	Approved by SAT SOG/02	ON-GOING	ON-GOING The meeting review information in WP 8.1

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ID #	ACTION	WHO	WHEN	STATUS	NOTES BY SAT SOG 04	
SOG03-04	Secretariat monitors the progress, outcomes and deliverables issued by SAT SOG RMA HS PT to timely communicate SAT States and ANSPs regarding upcoming requirements and infrastructure needs for collecting LLDs and LLEs.	Secretariat RMAs SAT Members		Approved by SAT SOG/03	SAT SOG/4: ON GOING	ON GOING Collection of LLDs and LLEs are part of the PBCS implementation activities.
SOG03-06	Secretariat to support the development of Decision SAT-SG/01 and Decision SAT SOG 02/01. To coordinate the implementation of an action plan with IATA, SAT States, ANSPs and concerned Regional Offices. Analysis to assess the impact of delineation to the AIPs information, Regional ANPs, Doc 7030, etc.	Secretariat SAT members	31 October 2024	Approved by SAT SOG/03 Impact analysis is ongoing	SUPERSEDES ACTION SOG02- 08 SAT SOG/4: Ongoing	ON GOING Delineation activities in progress. So far, no issues in AIPs have not been identified as the delineation does not affect the current airspace organization in the SAT area.

SAT/SG3 – WP/03B

ID #	ACTION	WHO	WHEN	STATUS	NOTES BY SAT SOG 04	
SOG03-09	<p>RMA's concerned in the SAT area (SATMA, ARMA, CARSAMMA), and SAT SOG members engage and support the activities needed for the adequate development of Item Actions SAT IMG /02-1 and SAT IMG /03-03. Secretariat to follow up and bring assistance.</p>	<p>SAT SOG RMA's Secretariat</p>	<p>According to working plan derived from IMG actions.</p>	<p>Approved by SAT SOG/03</p>	<p>SAT SOG/4: ON GOING</p>	<p>ON GOING</p> <p>PBCS matters were discussed ensuring SAT IMG5 SOG 5.</p> <p>States and CARSAMMA are engaged to PBCS activities.</p> <p>To confirm ARMA engagement on PBCS topics is needed</p> <p>SAT SOG/6: The meeting was exhorted to review SAT IMG/6 SoD on PBCS matters.</p> <p>Note Decision SAT IMG/04-3</p>
SOG03-11	<p>Secretariat to gather and coordinate relative information to ensure that PIRG bodies and RSOOs are notified, and regional processes are identified to support processes timely transmission of LHD events information provided by RMA's, needed to determine causal factors and subsequently, drive</p>	<p>Secretariat RMA's</p>	<p>SAT SOG 05</p>	<p>Approved by SAT SOG/03</p>	<p>SAT SOG/4: ON GOING</p>	<p>ON GOING</p> <p>Secretariat</p>

SAT/SG3 – WP/03B

ID #	ACTION	WHO	WHEN	STATUS	NOTES BY SAT SOG 04	
	implementation of risk mitigations by ANSPs and States.					

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ID #	ACTION	WHO	WHEN	STATUS	NOTES BY SAT SOG	
SOG04-02	<p>a) The updated version of the Terms of Reference (ToRs) template for SAT SOG Project Teams is approved as shown in Appendix H.</p> <p>b) The SAT Document Management Office (DMO) is tasked to include the mentioned template in the next review of the SAT Handbook.</p>	Document Management Office - DMO	Before SAT SG/02 meeting	Approved by SAT SOG/04		<p>ON GOING</p> <p>SAT SOG/6: In new HANDBOOK a new part referred to DMO is proposed</p> <p>Briefing on the 2nd edition SAT HANDBOOK (Revision 7 of the team) amendment process.</p>

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ID #	ACTION	WHO	WHEN	STATUS	NOTES BY SAT SOG	
SOG05-01	Secretariat, in coordination with ICAO Regional Offices, to submit State letters to SAT States, ANSPs, Airspace Users and Observers requesting update contact details of their focal points and submit the lists reflecting recent personnel changes.	Secretariat		Approved by SAT SOG/05		<p>Not started</p> <p>Secretariat to define: Part of Steering Group actions</p> <p>The reviewed SAT Handbook have to clearly specify roles</p>
SOG05-02	<p>a) Brazil to consider the challenges identified by the IMG/SOG/05 Combined meeting (in paragraph 5.9 of SoD), to implement an action plan to move forward the South Atlantic Airspace scrutiny activities' flow within the SAT SOG; and</p> <p>b) Secretariat to assist the work in progress and maintain communication with concerned SAT states, members, agencies and stakeholders.</p>	Brazil Secretariat		Approved by SAT SOG/05		<p>ONGOING</p> <p>SAT SOG/6: An action Plan will be presented in the SAT SOG /8, considering the presentation of the SAT RMAs in SOG/7</p>
SOG05-03	a) RMAs and States to take note that external data requests	RMAs SAT States		Approved by SAT SOG/05		<p>ONGOING</p>

ID #	ACTION	WHO	WHEN	STATUS	NOTES BY SAT SOG	
	<p>concerning CAR/SAM FIRs must be directed to CARSAMMA, not individual FIRs;</p> <p>b) RMAs are encouraged to held inter-agencies coordination as established in Doc 9937; and</p> <p>c) Secretariat to monitor the accomplishment of the 2 above recommendations.</p>	Secretariat				<p>SAT SOG/6:</p> <p>a) The proposal was followed by States in CAR SAM Region</p> <p>b) On going</p> <p>c) Secretariat Monitoring</p>
SOG05-04	<p>a) The DMO, in coordination with Secretariat, to process the amendment of Doc 002 - SAT contingency Plan as proposed by Brazil;</p> <p>b) States to implement updates to their Letters of Agreement (LoAs) in alignment with SAT DOC 002 as soon as practicable; and</p> <p>c) Secretariat to monitor progress of LoAs updating.</p>	DMO Secretariat		Approved by SAT SOG/05		<p>ONGOING</p> <p>SAT SOG /6: Coordination is ongoing in Brazil. See Action 06-03 SAT IMG Coordinate and prepare an update to SAT Doc 002 based on the proposal from Brazil in WP05.</p> <p>Angola Brazil Côte d'Ivoire Senegal</p>

ID #	ACTION	WHO	WHEN	STATUS	NOTES BY SAT SOG
SOG06-01	<p>a) the SAT RMAs (ARMA, CARSAMMA, SATMA) to provide information and analysis obtained from their respective scrutiny groups for presentation at the SAT SOG/07 meeting; and</p> <p>b) Secretariat to assist the work in progress and maintain communication with concerned SAT states, members, agencies and stakeholders.</p>			<p>Approved by SAT SOG/6</p> <p>NEW</p>	
SOG06-02	<p>The Secretariat to monitor the outcomes of SAT IMG Action 06/04, related to GNSS RFI. Considering these outcomes, Secretariat to coordinate a SAT OPS bulletin referred to GNSS RFI, taking as a reference the NAT OPS Bulletin - January 2025.</p>	<p>Secretariat States IATA</p>	<p>Advances for the SAT SOG/7</p>	<p>Approved by SAT SOG/6</p> <p>NEW</p>	<p>The NAT OPS Bulleting will be included in the SoD as appendix. ADD IATA doc in appendix</p> <p>The SAT SOG Decision 05/01- Maintenance and Coordination of the new editions of SAT OESB, is ongoing.</p>
SOG06-03	<p>ASR PT has included in the SAT SOG /6 SoD a sample of the format and defined deadlines to grant that the 2024 results are received by 23 January 2026. The goal is to finish and publish a ASR</p>	<p>ASR PT RMAs STATES Secretariat</p>		<p>Approved by SAT SOG/6</p>	<p>It is proposed that SAT define a timeline for the ASR bulletin every year.</p> <p>ASR P/T and Secretariat Submit a proposal strategy on this topic to the SAT SG /3.</p>

ID #	ACTION	WHO	WHEN	STATUS	NOTES BY SAT SOG
	'prototype' by SAT SOG/7 and then adjust the work of the P/T to a timeline to be presented in SAT SOG/8 approved timely by Steering Group.				

SAT SOG DECISIONS

Reference / Title	Description	Notes	Status
SAT SOG Decision 01/02 – SAT annual safety report project team (SAT ASR PT)	That, a Project Team be established to elaborate the SAT annual safety report (SAT ASR) aimed to improve safety in the South Atlantic airspace. The project team will review the NAT ASR, compose a SAT ASR with relevant topics specific to the region, and will present the drafted document to the SAT SOG/2 to be validated.	State Letter to administrations, requesting the nomination of the designated focal points and/or the SME/members/leaders/coordinators of the PT	ONGOING SAT SOG/6: The deliverable ASR draft Report is in progress. A draft was presented to the SAT SOG/6.
SAT SOG Decision 02/01 - Support for the workplan of SAT SOG RMA H/S Pt	That, SAT SOG members are invited to: a) Support administrative delineation of some FIRs * for the purposes of data collection and submission to facilitate safety assessment, risk		ONGOING SAT SOG/6: The meeting agreed on the importance of bring support for delineation activities.

	<p>estimation, and metrics harmonization within the SAT;</p> <p>b) provide standardized data to help the RMAs achieve their objectives and deliverables, as well support comprehensive assessment of the SAT Region; and</p> <p>c) endorse and support the activities of RMA H/S PT on delineation of SAT, according to planned phases 1, 2 and 3.</p> <p><i>* Specifically: Accra, Canaries, Comodoro Rivadavia, Ezeiza, Johannesburg, Luanda, Montevideo and Windhoek FIRs have portions of airspace designated to the SAT Area.</i></p>		
<p>SAT SOG Decision 05/01-</p> <p>Maintenance and Coordination of the new editions of SAT OESB</p>	<p>That, to ensure the effective and timely publication, maintenance and availability of the SAT OESB:</p> <p>a) the SAT SOG contributory</p>		<p>Ongoing</p> <p>SAT SOG/6:</p> <p>The two SAT OESB Bulletins are still available in the RO SAM website.</p>

	<p>bodies is responsible for supporting the analysis and gathering of safety matters and consolidating the contents for the next editions of the SAT OESB; and</p> <p>b) The SAT SOG Secretariat, in coordination with the SAT DMO, are tasked with the maintenance, archiving and dissemination of the Bulletins endorsed.</p> <p>c) SAT SOG adopted the update framework as indicated in WP 5.1 par. 2.1.</p>		
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3 ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) take note of the information provided;
- b) support the SAT SOG safety activities as described in the Action items;
- c) take note and support the SAT SOG decisions; and
- d) provide further guidance, as necessary.

Appendix A

DRAFTED SUMMARY

PAPERS	TITLE	PRESENTED BY	COMMENTS - SECRETARIAT
IP 1.3	Results of the combined meeting SAT IMG & SOG/05.	Secretariat	The meeting has taken note. The SoD are available to delegates.
WP 1.2	Review of SAT SOG decisions and action item lists.	Secretariat	A quick review was made, the List of Action Items and decisions, including those adopted this week, will be confirmed the last day of meeting.
IP 1.4	ICAO Assembly 42nd Session	Secretariat	The meeting has taken note. A brief presentation PPT was delivered (The same prepared for the SAT IMG 6 meeting)
IP2.1	SAT SOG Regional Monitoring Agency Harmonization and Standardization Project Team (SAT SOG RMA H/S PT) Report to the SOG	RMA H/S PT Chairperson	The meeting has taken note about the RMA Meeting held this year in Rio de Janeiro, Brazil. There was a focus on height monitoring using ADS-B and the tool used. The PT will review the outcomes of this last workshop and discuss the need to establish a follow-on during its next meeting.
WP2.2	SAT ASR PT Updates	Senegal	<p>The meeting has taken note of the progress and achievements of the project team in 2024. Moreover, presented the challenges the team is facing with data and training. Some chapters of the ASR draft were totally completed, others partially completed, and the remaining parts are not yet started.</p> <p>The meeting was invited to:</p> <ul style="list-style-type: none"> a) Consider the information presented in the paper b) Consider the first draft of the SAT ASR in appendix A (separate file) c) Identify any additional actions and resources to support the SAT ASR PT related to the challenges faced, specifically the availability of the expected remaining data d) Discuss any relevant matters as appropriate.
WP2.1	SAT airspace scrutiny activities flow	Brazil	Analyses, challenges and alternatives within the work activities of SAT SOG were presented. Questions about how efforts should be directed to ensure workflow were clarified. The meeting was reminded about the discussions and conclusions on this topic approved in previous meeting.

PAPERS	TITLE	PRESENTED BY	COMMENTS - SECRETARIAT
			<p>For the next steps, it was recommended to increase standardization among data collection methods to facilitate consistent analyses and for the identification of performance trends when this information be presented at SATSOG meetings on regular basis.</p> <p>The meeting was invited to:</p> <p>a) note the information provided in this working paper;</p> <p>b) support the SAT RMAs (ARMA, CARSAMMA, SATMA) in providing information and analysis obtained from their respective scrutiny groups for presentation at the SAT SOG/07 meeting; and</p> <p>c) provide direction as deemed necessary.</p>
WP 3.1	Vertical collision risk of the EUR/SAM corridor relevant to CARSAMMA	CARSAMMA	<p>CARSAMMA presented an analysis considering ICAO's CRM methodology. It provided the CRA calculations, the application location (airways within the EUR/SAM Corridor), and the traffic data, thus arriving at a conclusion of its estimate.</p> <p>The Meeting was invited to:</p> <p>a) take note and review the content of this working document; and</p> <p>b) share experiences and express opinions about CARSAMMA's actions.</p>
IP3.1	Consolidated data related to large height deviation (LHD) involving SBAO FIR	Brazil	<p>The meeting has taken note. The difference between the data presented and that of CARSAMMA was questioned. However, each of them focused on different areas within the RMA.</p>
WP 3.2	GNSS Radio Frequency Interference (RFI)	IATA	<p>IATA presented an introduction to the subject and the challenges experienced through data from the FDX program. As requested at the 42nd ICAO Assembly, it detailed the multifaceted approach to mitigating RFI interference in GNSS for States to implement the necessary measures.</p> <p>The meeting considered that further coordination between SAT SOG and SAT IMG is demanded to define the next steps and actions to be implemented about this topic.</p>
IP3.2	Impact of reduced set of airways on the EUR/SAM RVSM Collision Risk Assessment	CARSAMMA	<p>Information paper presented.</p>

PAPERS	TITLE	PRESENTED BY	COMMENTS - SECRETARIAT
IP 5.1	Elections for President and Vice President of the SAT SOG	Secretariat	<p>The Secretariat informed that two nominations was formally received in the RO SAM. Trinidad and Tobago nominated Mr Ian Gomez for Vice chair and Brazil nominated Mr Jorge Avila for Chaiman.</p> <p>Senegal, Cote d'Ivoire, Cabo Verde and Spain expressed support to the nominations. No objections were raised. The meeting acclaimed the two re-elected chairpersons. The election results will be submitted to SG/3 meeting.</p>
WP 5.1	SAT SOG Work programme proposal for 2026-27	SAT SOG	<p>The working programme was approved, however, the meeting decided to submit a proposal to the SAT SG/3 in order to hold a combined meeting SAT IMG7 & SOG/7 in April 2026, in Cabo Verde (which delegates consider that the state has capabilities to host the combined event).</p>

END