



**ICAO** *International Civil Aviation Organization*  
**Steering Group of the Improvement of Air traffic Services  
over the South Atlantic (SAT-SG)**

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**First Meeting of the Steering Group of the Improvement of Air traffic Services over the  
South Atlantic (SAT-SG/01)**

*(virtual, 4 December 2023)*

**Agenda Item 2:** Outcome of the sub group meetings

**SUMMARY OF DISCUSSIONS OF THE FIRST AND SECOND MEETING OF THE SOUTH  
ATLANTIC IMPLEMENTATION MANAGEMENT GROUP (SAT IMG)**

*(Presented by the Secretariat)*

**SUMMARY**

This paper provides information concerning the outcomes of the SAT IMG/01 and SAT IMG  
IMG/02 meetings for review and action.

**REFERENCES**

**1. Introduction**

1.1 The First Meeting of the South Atlantic Implementation Management Group (SAT  
IMG/01) was held, thanks to the kind invitation of ASECNA, from 21 to 24 November 2022, in Abidjan,  
Côte d'Ivoire. The full report of SAT IMG/01 meeting is provided at [Appendix A](#).

1.2 The Second Meeting of the South Atlantic Implementation Management Group (SAT  
IMG/02) was held in the ICAO EUR/NAT Office from 24 to 27 July 2023, in Paris, France. The full report  
of SAT IMG/02 meeting is provided at [Appendix B](#)

**2. Discussion**

2.1 During the SAT IMG/01 meeting, the main focus of the discussions was on the AIDC and  
PBCS implementation in the SAT airspace, the different space-based or ground-based ADS-B  
implementation activities, the establishment of a SAT contingency plan review PT and the organisation of  
the ESCIT/03 meeting in Q1 2023. The SAT IMG/01 took note of the different implementation activities  
in the NAT (e.g. endorsement of the operational 15 NM TtT trial in Reykjavik CTA) and the various NAT  
guidance document revisions (especially NAT Doc 006 NAT Contingency Plan, NAT Doc 007 NAT  
Operations and Airspace Manual, NAT OPS Bulletins).

2.2 The SAT IMG/01 closed with the agreement on the SAT IMG decisions, the SAT IMG action item list and the processed Appendixes.

2.3 At the second SAT IMG/02 meeting the Group further progressed on the implementation activities, especially on the AIDC and PBCS implementation in the SAT, discussed the results from the ESCIT/03 meeting, the different space-based or ground-based ADS-B implementation activities and the proposed changes to the ATS Route structure in the EUR/SAM corridor. An update from the activities of the SAT CPR PT was presented as well as the results from analysis of Flight Level utilisation in parts of the EUR/SAM corridor. The Group established SAT PBCS implementation support PT and highlighted the need for increased coordination between SAT IMG and SAT SOG. The Group also supported the IATA proposal IATA to consider the merits of developing a document management office (DMO) in order to facilitate appropriate harmonization and publishing of regional material.

2.4 The SAT IMG/02 meeting closed with the following SAT IMG Action items and SAT IMG Decisions:

ID #	ACTION	REMARKS	WHO	WHEN
R-01	Provide State/ANSP Reports including traffic figures and information on implementation activities.	SAT IMG/1 SoD,	All SAT IMG members	Every meeting
R-02	In accordance with the detailed AIDC implementation activity plan for the SAT Region (Appendix X) present updates on AIDC implementation to the SAT IMG	SAT IMG/1 SoD, para. 2.3	Secretariat SAT IMG members	Every meeting
<del>01-01</del>	<del>Share the AFI Region Free Route Airspace FRA implementation roadmap with SAT IMG members</del>	<del>SAT IMG/1 SoD, para. 2.3</del>	<del>Secretariat</del>	<del>SAT IMG/02</del>
01-02	Review the SAT Contingency Plan (inclusion of 20 min LONG separation minima and use of FL 400) in the framework of the SAT CPR Project Team report back to the next meeting	SAT IMG/1 SoD, Para. 2.12	SAT CPR PT	SAT IMG/03
<del>01-03</del>	<del>Share the deliverables/guidelines in support of AIDC implementation between 2 ACCs/OACs in the SAT Region with SAT IMG members</del>	<del>SAT IMG/1 SoD, Para. 4.2</del>	<del>Secretariat</del>	<del>31 DEC 2022</del>

ID #	ACTION	REMARKS	WHO	WHEN
01-04	Report back on the technical solutions_ which support the implementation of AMHS <u>and present updates on completed implementation</u>	SAT IMG/1 SoD, Para. 2.12	Secretariat SAT IMG members	SAT IMG/03
<del>01-05</del>	<del>Update on implementation timelines and coverage of ground and space based ADS-B within the EUR-SAM corridor</del>	<del>SAT IMG/1 SoD, Para. 2.12</del>	<del>ESCIT members</del>	<del>ESCIT/03</del>
<del>01-06</del>	<del>Submit the ESCIT/03 meeting report for discussion and review to the next SAT-IMG meeting</del>	<del>SAT IMG/1 SoD, Para. 2.12</del>	<del>ESCIT chairperson</del>	<del>SAT-IMG/02</del>
01-07	Following the assessment of the current implementation activities, prepare a SAT Service Development Roadmap for the coordinated harmonised implementation of operational improvements from 2024 onwards	SAT IMG/1 SoD, Para. 2.12	Secretariat SAT IMG members	SAT IMG/03
<del>01-08</del>	<del>Submit all material from the individual AIPs on the airspace dimensions, waypoints and procedures of the AORRA phase 4 area to the Secretariat. If available, send also any information on the AORRA phase 5</del>	<del>SAT IMG/1 SoD, Para. 2.12</del>	<del>SAT IMG members</del>	<del>31 DEC 2022</del>
02-01	Based on the SAT Area description in the Draft SAT Doc002, develop a map of the SAT Area (including EUR/SAM corridor and AORRA)	SAT IMG/2 SoD	Secretariat IATA	30 SEP 2023
02-02	Request the AIM/SWIM Team of the EUR Region to share best practices and guidance on the AMHS implementation	SAT IMG/2 SoD	Secretariat	SAT IMG/03
02-03	SATMA to maintain the data collection and traffic figure analysis for the EUR/SAM corridor, but to exclude the not planned RFL tables in future reports	SAT IMG/2 SoD	SATMA	SAT IMG/03

ID #	ACTION	REMARKS	WHO	WHEN
02-04	SATMA, upon request from SAT members, to create specific use case scenarios which would support implementation initiatives in the SAT area	SAT IMG/2 SoD	SAT IMG members	SAT IMG/03
02-05	Invite States/ANSPs to include any ATM coordination or interoperability issues into the State reports for discussion at the SAT IMG	SAT IMG/2 SoD	SAT IMG members	SAT IMG/03
02-06	Collect all the information from State Reports & WPs and develop consolidated AMHS and AIDC implementation status tables	SAT IMG/2 SoD	Secretariat	SAT IMG/03
02-07	SAT members to contact their national authorities on the proposed frequency allocation aspects and to support the AMS(R)S B1 method (including data link functionality) for agenda item 1.7 at the next ITU WRC 23	SAT IMG/2 SoD	SAT IMG members	3Q 2023
02-08	Cabo Verde, Spain and Brazil to collect Flight Level utilization data (e.g. a monthly traffic data sample for 2 <sup>nd</sup> half in 2023) at the entry into the EUR/SAM corridor (requested FL vs assigned FL, not FL from FPL) and present this to the SAT IMG	SAT IMG/2 SoD	Brazil Cabo Verde Spain	SAT IMG/03
02-09	Contact Argentina and Uruguay for inclusion of their contingency arrangements into SAT Doc 002	SAT IMG/2 SoD	Secretariat	SAT IMG/03

**SAT IMG/02 DECISIONS**

Reference/Title	Description	Comments	Status
<del>SAT IMG/01-1 Inclusion of RCP240 and RSP 180 values into the aircraft equipment monitoring tables</del>	<del>That, Spain amends the aircraft equipment monitoring tables for the EUR/SAM corridor so that they include the values for RCP240 and RSP 180.</del>	<del>To be included into the next report for the SAT IMG/02 meeting</del>	<del>On-going Completed</del>
SAT IMG/01-2 Expand the time horizon for traffic number monitoring in the EUR/SAM corridor	That, Spain expands the time horizon for traffic figures within the EUR/SAM corridor so that the range includes traffic figure from the past year (Y-1), the actual/current year (Y) and the next year (Y+1)	To be included into the next report for the SAT IMG/03 meeting	On-going
SAT IMG/01-3 Submit survey on PBCS implementation, analyze the results obtained, and present them to the next meeting	That: a) the SAT IMG members are invited to complete a survey (similar to the one from ARMA) in order to determine the readiness for PBCS Implementation; b) the ICAO Secretariat analyse the results of the survey; and c) report the results to the next SAT IMG/02 meeting.	Survey launch before end 2022 3 months comments period Share the results with the 3 SAT RMAs <u>As not all States had responded so far,</u> <del>Preparation of</del> <u>invite remaining States to complete the survey and prepare a WP for SAT IMG/02/03</u>	On-going
SAT IMG/01-4 Implement solutions for the improvement of flight efficiency and flight level occupancy in the EUR-SAM corridor	That, SAT ANSPs are invited to provide the solutions to mitigate flight level limitations and improve flight level occupancy for existing and future flights within the EUR/SAM corridor	State Letter to be sent <u>in Q3 2023</u> Follow up at SAT IMG/02/03	On-going
<del>SAT IMG/01-5 Organisation of ESCIT/03 meeting in Q1/2023</del>	<del>That, in accordance with the SAT IMG ToRs, the ESCIT/03 meeting will be organized as early as possible in 2023 with the main priority to assess and improve the air navigation system capacity and efficiency within the EUR/SAM corridor.</del>	<del>State Letter invitation to be sent ESCIT report to be presented at SAT IMG/02</del>	<del>On-going Completed</del>
SAT IMG/01-6 Establishment of a SAT Contingency Plan Review Project Team	That, a Project Team be established in order to review and propose amendments to the ATM Operational Contingency Plan for the South Atlantic, to verify the accuracy of the information particular to each SAT FIR, and to publish the SAT Contingency Plan as a new SAT DOC 002.	<del>State Letter for nominations to be sent</del> Series of virtual meetings Participation in the AFI workshop <del>PT report to be presented at SAT IMG/02</del> <u>Final version to be submitted to SAT IMG/03</u>	On-going

Reference/Title	Description	Comments	Status
SAT IMG/02-1	That, a Project Team be established in order to develop a combined implementation plan, task list and timelines/action items, which will support the harmonized implementation of PBCS and the use of the related PANS-ATM separation minima in the South Atlantic.	State Letter for nominations to be sent Series of virtual meetings PT report to be presented at SAT IMG/03	New
SAT IMG/02-2	That all ANSPs in the EUR/SAM corridor study the proposal from Cape Verde to change ATS Route UN866 into a bi-directional Route and consider also the effects for traffic flows crossing the EUR/SAM corridor.	Either as part of ESCIT/04 or as a series of individual meetings Study report to be presented at SAT IMG/03	New
SAT IMG/02-3	That all ANSPs in the EUR/SAM corridor amend and update their individual Letter of Agreements so that the application of the Mach Number Technique in the EUR/SAM corridor can be amended accordingly.	Update of all LoAs before 30 September 2023 <a href="#">Information on signed LoAs should be sent to the Secretariat</a> Report back to SAT IMG/03	New
SAT IMG/02-4	That, in response to the SAT SOG Regional Monitoring Agency Harmonization and Standardization Project Team report, the Secretariat will share the SAT area geographical definition (as published in the States AIPs) with the PT and discuss the delimitation aspects. The SAT IMG has also decided that July should be the month for the collection of optimal traffic sample data.	Share the data from SAT Doc 002 with SAT SOG RMA H/S PT Participate at the next PT meeting	New
SAT IMG/02-5	That, following the request from IATA, the SAT IMG proposes an amendment for the establishment of a SAT Document Management Office (DMO) to SAT Doc 001 for consideration/approval by the SAT SG	Extract the SAT DMO ToRs from the NAT Doc 001 Amend the ToRs with coordination aspects between NAT and SAT DMOs Follow up at SAT IMG/03	New
SAT IMG/02-6	That the SAT IMG agenda has to be expanded with a dedicated agenda item that will address aspects and/or working papers which need to be coordinated between the SAT IMG and SAT SOG	<a href="#">Prepare revised agenda for SAT IMG/03</a>	New

### 3. Action by the Meeting

3.1 The SAT SG is invited to:

- a) note the information provided;
- b) support the SAT IMG implementation activities as described in the Action items

- c) take note and support the SAT IMG discussions;
- d) note that the next SAT IMG/03 meeting will be organised in Santa Maria, Portugal from 5 to 8 February 2024; and
- e) provide further guidance, as necessary.

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*The following Appendix is provided with this working paper as a separate file:*

***APPENDIX A in a separate document:*** < *Summary of Discussions of the First meeting of the South Atlantic Implementation Management Group SAT IMG/01 (Abidjan, Côte d'Ivoire, 21 to 24 November 2022)*

***APPENDIX B in a separate document:*** < *Summary of Discussions of the Second meeting of the South Atlantic Implementation Management Group SAT IMG/02 (Paris, France, 24 to 27 July 2023)*

***APPENDIX C in a separate document:*** < *SAT IMG/03 invitation*

— **END** —