



Agenda Item 3: Communications, navigation and surveillance (CNS) (By CNS Working Group)

AIDC implementation between AFI and SAM Region

(Presented by the Secretariat)

EXECUTIVE SUMMARY	
This Working Paper presents information about AIDC activities implemented between AFI and SAM Region since the SAT/21 and the AIDC status in SAM and AFI Region	
Action:	Suggested Action is presented in Section 3.
<i>Strategic Objectives:</i>	Safety Air Navigation Capacity and Efficiency
<i>References:</i>	<ul style="list-style-type: none"> • Twenty first Meeting on the improvement of Air Traffic Services over the South Atlantic (SAT/21) Lisbon 8-10 June 2016 • Summary AMHS/AIDC Teleconference AFI/SAM (8th September 2016, 3rd October 2016, 2nd December 2016 and 9th May 2017) • Third meeting of AIDC implementation (Lima Peru 24-26 April 2016)

1. Introduction

1.1 The SAT/21 meeting reviewed the status of implementation of AIDC in SAT Centers and noted that the operation of AIDC will contribute to the improvement of air navigation safety as to provide tangible benefits to air traffic control operation and to reduce LHD.

1.2 The SAT/21 noted that a continuous coordination should be initiated and maintained in order to successfully implement AIDC amongst SAT ATCs and identified Angola, Argentina, Brazil, Côte d’Ivoire, French Guyana, Senegal, South Africa and Uruguay to nominate focal points and organize teleconferences with the Assistance of the SAT Secretariat in order to study the implementation of AIDC interconnection formulating the *Conclusion 21/17: Implementation of AIDC*.

2 Analysis

2.1 In order to follow up Conclusion 21/17 four teleconference were made from September 2016 to May 2017. In this respect Argentina, Brazil, Senegal and South Africa reported that they have implemented and in operation the AIDC in the automation system of their ACCs.

2.2 Argentina reported that considering the limited availability of the CAFSAT node in Ezeiza (Buenos Aires) node, the initial implementation of AIDC trial between Ezeiza and Joannesburg can be made through a VPN circuit through public internet, the same circuit proposed for AMHS trials. The VPN circuit is presented as **Appendix A** of this working paper. The AIDC trials using the AFTN circuit between Ezeiza and Johannesburg will be made once Argentina implemented the modernization at the CAFSAT node that is expected by the middle of 2018.

2.3 Regarding AIDC connection experience, Argentina implemented an AIDC national connection between the ACC of Ezeiza with the ACC of Cordoba that is in a preoperational phase, it is expected by the end of 2017 that all their national ACCs will operate with AIDC. Also Argentina made positive AIDC trials with Chile and Paraguay.

2.4 Brazil reported that they have AIDC in operational phase among all their national ACCs with the exception of Atlántico ACC, where the AIDC is expected to be ready at the end of the first semester of 2017. The following AIDC connections have been carried out between all their national ACCs from May to July 2016 using new automation system (*Sagitario from Atech*)

Curitiba – Recife	July 2016
Recife – Brasilia	June 2016
Curitiba – Brasilia	July 2016
Curitiba – Amazónica	July 2016
Amazónica – Brasilia	June 2016
Amazónica – Recife	May 2016

2.5 Brazil will be ready to start AIDC trials with Senegal and South Africa in the second semester of 2017 once in Atlantico ACC operate the new automation system that is in this moment in the installation phase.

2.6 South Africa reported that they have AIDC implemented between their two FIRs North and South and with Australia since 2010, they also make trials with Botswana and Namibia without positive result.

2.7 The AIDC ICD used in SAM and AFI Region are based on the ASIA/PACIFIC Regional Interface Control Document (ICD) for ATS Interfacility Data Communications (AIDC). The ICD AIDC for the SAM Region is available at the following web portal <http://www2010.icao.int/SAM/eDocuments/AIDCv7TechnicalAspects%20rev2015.pdf>. The SAM Region use only a minimum set of AIDC messages see **Appendix B**.

2.8 For the AIDC coordination the States involved nominated focal points; the list of focal point is presented as **Appendix C**

2.9 In reference at the AIDC trail requirement between French Guyana and Senegal, France reported that they are ready to start AIDC trials at the first semester of 2018 once they complete the installation of the new AMHS system in Cayenne. **Appendix D** present the AIDC current status connection and planning at regional and interregional including AFI region for the SAM Region.

3 Action required

3.1 The meeting is invited to take note of the working paper and analyze the section 2 and the associated Appendixes A, B,C and D of this working paper.
