International Civil Aviation Organization
South American Regional Office - Regional Project RLA/06/901
Second Meeting on AIDC implementation (ATS data communications between facilities) in the SAM Region
(Lima, Peru, 21 to 23 September 2016)

Agenda Item 2: Follow-up to AIDC performance in the SAM Region and results of AIDC interconnection trials in the SAM Region

IMPLEMENTATION OF AIDC PROTOCOL IN BRAZIL

(Presented by Brazil)

SUMMARY

This working paper presents information about the implementation of AIDC protocol in Brazilian ACC.

References:

- Thirteenth Workshop/Meeting of the SAM Implementation Group (SAM/IG/13).
- Seventeenth Workshop/Meeting of the SAM Implementation Group (SAM/IG/17).
- First Meeting on AIDC implementation in the SAM Region (Lima, Peru, 28 to 30 March 2016).
- Declaration of Bogotá.

ICAO strategic objectives:	A - *Safety* *B - Capacity and efficiency of air navigation*

1 Introduction

1.1. In the Thirteenth Workshop/Meeting of the SAM Implementation Group (SAM/IG/13) it was remembered that the interconnection of automated systems between adjacent ACCs has the objective of reduce the risk of aeronautical incidents generated by coordination activities between these centers and the improvement, at the same time, of the phases of planning for an efficient control of the flights from/towards the corresponding Flight Information Regions (FIR).

1.2. In this way a set of studies has been made, by means of Project RLA /06/901, with the objective of have a complete view about the theme, including its obstacles, recommended actions and the execution strategy.

1.3. As a result of these studies, Brazilian Administration identified the necessity to make improvements in its automated system of air traffic control, used in its Control Centers (ACC and APP), that result in project SAGITARIO, which includes new functionalities and a new user interface (HMI). The new system was developed by Atech, a Brazilian company, and is operational in four ACC: Brasilia, Curitiba, Amazonico and Recife. Also, it is being implemented on ACC Atlántico, which will be operational by March, 2017.

2 Discussion

2.1. The SAGITARIO system has the ability to provide “handoff” capacity through protocols Doc.4444, OLDI and AIDC. Nowadays the Brazilian ACCs uses Doc. 4444 protocol to make the “handoff” between adjacent FIR.

2.2. To meet the Bogotá Statement, the Brazilian Administration decided to adopt the use of AIDC protocol in their ACC until the end of 2015. The interconnection between automated systems of neighbors’ countries will be accomplished during 2016. To do so, the following actions were outlined:

1) Conclusion of the SAT (Site Acceptance Test) regarding to the AIDC protocol, interconnecting the ACC-BS with ACC-CW. Tests already carried out, with successful results.

2) Training of controllers from ACCs Amazonico, Brasília, Curitiba and Recife. Carried out, with successful results.

3) Operational implementation, according to the following schedule:

a) ACC-CW ⇔ ACC-RE: JULY, 2016
b) ACC-RE ⇔ ACC-BS: JUNE, 2016
c) ACC-CW ⇔ ACC-BS: JULY, 2016
d) ACC-CW ⇔ ACC-AZ: JULY, 2016
e) ACC-AZ ⇔ ACC-BS: JULY, 2016
f) ACC-AZ ⇔ ACC-RE: MAY, 2016

4) Revision of the operational agreements: Revised and substituted by specific document that stablished a pattern process to the use of AIDC.

2.3. SAGITARIO is being implemented at ACC Atlantico, which will be operational by March, 2017.

2.4. The implementation of AIDC in SAGITARIO system is based on ASIA/PAC ICD, version 3.

3. Suggested actions

3.1 The meeting is invited to:

a) Note the information presented;
b) analyze the proposal to run AIDC compatibility tests between Argentina and Brazil; and
c) analyze other aspects related to this theme.

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