



Agenda Item 5: Operational implementation of new ATM automated systems and integration of the existing systems.

IMPLEMENTATION OF THE AIDC PROTOCOL IN BRAZIL

(Presented by Brazil)

SUMMARY	
This note presents information on the implementation of the AIDC protocol in the Brazilian ACCs.	
References	
<ul style="list-style-type: none">• SAM/IG/23 Final Report;• Bogota Declaration.	
ICAO Strategic Objectives:	<i>A - Operational safety</i> <i>B - Capacity and efficiency of air navigation</i>

1. Background

1.1 At the SAM Implementation Group meeting (SAM/IG/13 – Lima Peru, April 21-25, 2014) it was recalled that the interconnection of automated systems between adjacent ACCs aims to reduce the risk of aeronautical incidents generated by activities coordination between centers, and improvement, at the same time, the planning phases, for efficient control of flights to/from the corresponding Flight Information Regions (FIR).

1.2 Thus, through Project RLA/06/901, studies were carried out, with the objective of having a complete vision about the subject, including its necessary obstacles and actions, as well as the execution strategy.

1.3 As a result of the studies, the Brazilian administration identified the need to modernize its automated air traffic control system used in the control centers (ACC and APP), through the SAGITARIO project, which includes new features as well as a new interface machine man (HMI). The new system was developed by the company Atech, has undergone some revisions and to date it is implemented in all Brazilians ACCs and main APPs.

2. Discussion

2.1 The SAGITARIO system has ability to make the automated handoff through the Doc. 4444 protocols, OLDI and AIDC. Currently the national ACCs make the "handoff" through the messages of the Doc. 4444 protocol.

2.2 To comply the Declaration of Bogotá, the Brazilian administration decided to adopt the use of the AIDC protocol in the national ACCs and establish the interconnection with the ACCs of the neighboring States, as foreseen in Declaration. To achieve success, the following actions were and are being delineated:

- AIDC is already in operation and in operation among all its national ACCs;
- AIDC between the Amazon ACC and the Lima ACC is in the preoperative phase since September 6, 2018. It has even developed a correction in the method of processing and description of the logical rejection messages (LRM), which it allows the analysis of the error observed in this interconnection and, consequently, the adoption of mitigation measures. Due to contractual problems, this action has not yet been carried out. It is expected that this interconnection can be transferred to the operational phase for the first quarter of 2020;
- Considering that Paraguay and Venezuela acquired the SAGITARIO system for installation in the ACC Asunción and ACC Maiquetía, which are already in the reception phase and on-site tests, the Brazilian delegation proposed the start of interconnection tests AIDC in the second half of 2019, with these countries. Some telephone conferences were held to achieve this goal;
- The actions required to perform the AIDC interconnection tests between ACC Curitiba and ACC Asunción are still in the coordination phase.

3. Actions Suggested

3.1 The Meeting is invited to:

- a) Take note of the information provided; and
- b) analyze other aspects related to this matter that the Meeting considers necessary.

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