INTERNATIONAL CIVIL AVIATION ORGANIZATION

WESTERN AND CENTRAL AFRICA OFFICE

Twenty-Third Meeting on the Improvement of Air Traffic Services over the South Atlantic (SAT/23)

Durban, South Africa, 6-8 June 2018

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

AIDC IMPLEMENTATION

(Presented by the ASECNA)

SUMMARY
This paper provides updates to the meeting on the progress made by ASECNA towards the implementation of Air Traffic Service (ATS) Inter-facility Data Communication (AIDC).
REFERENCE(S): • Terms of Reference of SAT /CNS GROUP • SAT 21 - Conclusion 21/17 • SAT 22 - Conclusion 22/09
Related ICAO Strategic Objective(s): A & B

1.   **INTRODUCTION:**

1.1   Identified in the Aviation System Blocks Upgrades (ASBU) modules as one of the candidate functionality for the block zero elements/technologies, AIDC provides automated coordination, which significantly reduces the workload of Air Traffic Controllers while impacting positively on safety, including reducing:

- the need for oral coordination between ATS units;

- the controller workload;

- the repetition/read back errors during coordination.

1.2   SAT 21 meeting, Conclusion 21/17: Implementation of AIDC called upon states to conduct periodic teleconferences (preferably monthly) with the AIDC focal points and the SAT Secretariat, in order to study the implementation of AIDC.

1.3   Furthermore, the Conclusion 22/09 of SAT 22 meeting held in Paris, France, 07-09 June 2017, recommended that, in consideration of the initiative already undertaken, ASECNA and GCAA pursue their concertation in order to finalize the roadmap and implement AIDC between Abidjan and Accra with regard to the following schedule:

- First trial between Abidjan and Accra to start on 15 July 2017
- Full operational implementation by 31 January 2018

1.4   This working paper reports on the progress made for the implementation of AIDC between ASECNA and the neighboring involved centers.

2.   **DISCUSSION:**

2.1   ASECNA have already implemented several fully operational AIDC links, including links between Antananarivo and Plaisance, Ndjamena and Khartoum, Brazzaville and Khartoum.

2.2   In the framework of SAT, several teleconferences were conducted with the coordination of SAT secretariat. Trials are ongoing between Dakar and Cayenne centers.

2.3   Full AIDC implementation with DECEA region centers is scheduled for 2019 after the upgrade of ATM systems.

2.4   Trails are still ongoing between Abidjan and Accra based on a set of messages already agreed between ASECNA and GCAA and the full AIDC operation will be implemented as soon as issue of the remaining LRM messages are solved.

2.5   AIDC trials have already been conducted between Luanda and Brazzaville.

2.6   ASECNA is in coordination with centers in interface with EUR region (Sal, Casablanca, Algiers) using only OLDI, instead of both AIDC and OLDI, AIDC being the protocol adopted by ICAO and the AFI region.

2.6   Some works are in progress to upgrade the ATM systems to enable the implementation of AIDC with other centers.

ASECNA ATS Centers	Connection centers	AIDC Data Exchange Yes/No	Planning	Comments
Abidjan	Roberts	No	2018	ATM system upgrading ongoing in Roberts
	Luanda	No	2019	Implementation planning to agree
	Accra	Yes	2018	Trials on going, some LRM messages to solve before full implementation
	Atlantico	No	2019	Implementation planning to agree with DECEA
Dakar	Roberts	No	2018	ATM system upgrading ongoing in Roberts
	Las Palmas	No	TBD	Implementation planning to agree due to interoperability issue between OLDI and AIDC systems
	SAL	No	TBD	Implementation planning to agree due to interoperability issue between OLDI and AIDC systems
	Cayenne	No	2018	Trials on going
	Piarco	No	TBD	Implementation planning to agree
	Recife	No	TBD	
Brazzaville	Luanda	No	2018	Trials to continue

3. ACTION BY THE MEETING:

3.1 The meeting is invited to:

- Take note the information provided above

- Note the opportunity of an interregional circuit between AFI and SAM regions, with the capability to support the forthcoming CNS applications (AMHS and AIDC), in accordance with Required Communication Performance (Doc 9869).

- Encourage the stakeholders to pursue and finalize the implementation of AIDC identified between the various centers.

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