



INTERNATIONAL CIVIL AVIATION ORGANIZATION
AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP
SEVENTEENTH MEETING (APIRG/17)
(Burkina Faso, 2 to 6 August 2010)

Item 3.4 of Agenda: Air Traffic Management

Transition from the AIS to the AIM

(Information paper presented by ASECNA)

Summary

The present note has as a subject to present its fundamental objectives of the transition from the AIS to the AIM at ASECNA as well as its roadmap.

1. Introduction

1.1 With the adoption of the global management concept of the air-traffic and the progressive use of the CNS new means, the systems of navigation and management of the air-traffic are more and more dependent on the aeronautical data. That implies the necessity of having reliable, available aeronautical data on time and at the right chosen place.

1.2 This evolution brought the community of the ICAO to adopt the concept of management of the Aeronautic information (AIM). The Air Navigation Commission adopted on March 10, 2009 for the transition from the AIS to the AIM.

1.3 Like the international community, ASECNA gets ready to set this transition to the AIM. That is how the agency wrote down in its Plan of the Services and Equipments (PSE) 2009-2013, different projects taking into account of this preoccupation.

2. Discussions

2.1 Objectives of the AIS/AIM transition to ASECNA

The main objectives of this transition are:

- The implementation of a Centralized aeronautical Database able to ensure the reliability, the integrity and the availability in real time of the data.
- The easy exchange of data with the other Databases.
- the coherent automation of the main functions for the production of the different elements of the integrated Aeronautical information package,
- the facilitation of the interoperability of the AIS activities with the meteorological activities and flight Plan management

2.2 Programs in progress

To reach these objectives, some programs are developing and being implemented:

a) Conception and realization of the database

This database will consist of one part for the static data and another for the dynamic data. The database will be conceived in accordance with the AICM/AIXM modules kept by the ICAO (N°36 amendment of the annex 15). Its realization is subdivided into two phases:

- **Stage 1** : Installation of the static database and automation of the AIP functions and cartographic (2010-2011)
- **Stage 2** : Installation of the dynamic data base and automation of the NOTAM functions, GDP and Flight Plans (2011-2013)

The agency has already assigned a market for the Stage 1 especially “the supply of equipment and system of management of an automatic data base AIXM and the automation of the AIS/NOF/ARO/briefing Offices”.

b) Exchange with other data bases

In order to facilitate its integration to the world network, the ASECNA database will be in compliance with the international standards permitting exchanges with other operators. For that purpose, agreements of exchange could be established with EUROCONTROL and the AFICAD of the AFI region in the process of conception.

c) Staff training

Training modules on the management of the aeronautical data will be implemented at EAMAC (African Civil aviation and Meteorological Training Center) in order to let the AIS personnel have the tools allowing them to face the new challenges of the AIM.

d) AIM Quality Management (SMQ-AIS)

The implementation of a AIS quality management system is a standard and the ISO certification is recommended. For that purpose, ASECNA himself buckles firmly to set in motion the different AIS QMS tools. The initial audits of the structures of the agency will be able to take place in 2010 and the development of the different processes and procedures should end in 2011 to get to an ISO certification in 2012.

e) Implementation of the electronic terrain and obstacle data (eTOD)

Studies are in progress on the realization of works concerning the different zones specified by ICAO, taking into account the amendment 36 of Annex 15. These works are in the PSE 2009-2010.

f) Maintenance and the extension of the WGS84

WGS84 network maintenance and extension works are foreseen in the PSE and has been started. The elements of non registered transition on the present PSE and the future arrangements of the ICAO will be taken into account in the future plan PSE 2014-2018.

2.3 ASECNA Roadmap

The programs foreseen in the ASECNA transition plan is consistent with the one adopted by ICAO. The table below gives the detail.

ICAO Stages	Objectives	ASECNA Plan Stage		
		I 2010- 2011)	II 2010- 2011)	III 2010-2011
I Consolidation	Quality requirement	X	X	
	AIRAC conformity	X		
	Implementation of the WGS 84	X	X	
	eTOD		X	
	SARPs for the existing products	X		X
II Digitalisation	Implementation of databases	X	X	
	New products : eAIP-GIS	X	X	
III Information management	New services			X
	Future ATM new data			X

3. Conclusion

The meeting is invited to take note of the information above especially the measure of the range and the requirements of the transition from the AIS to AIM.
