













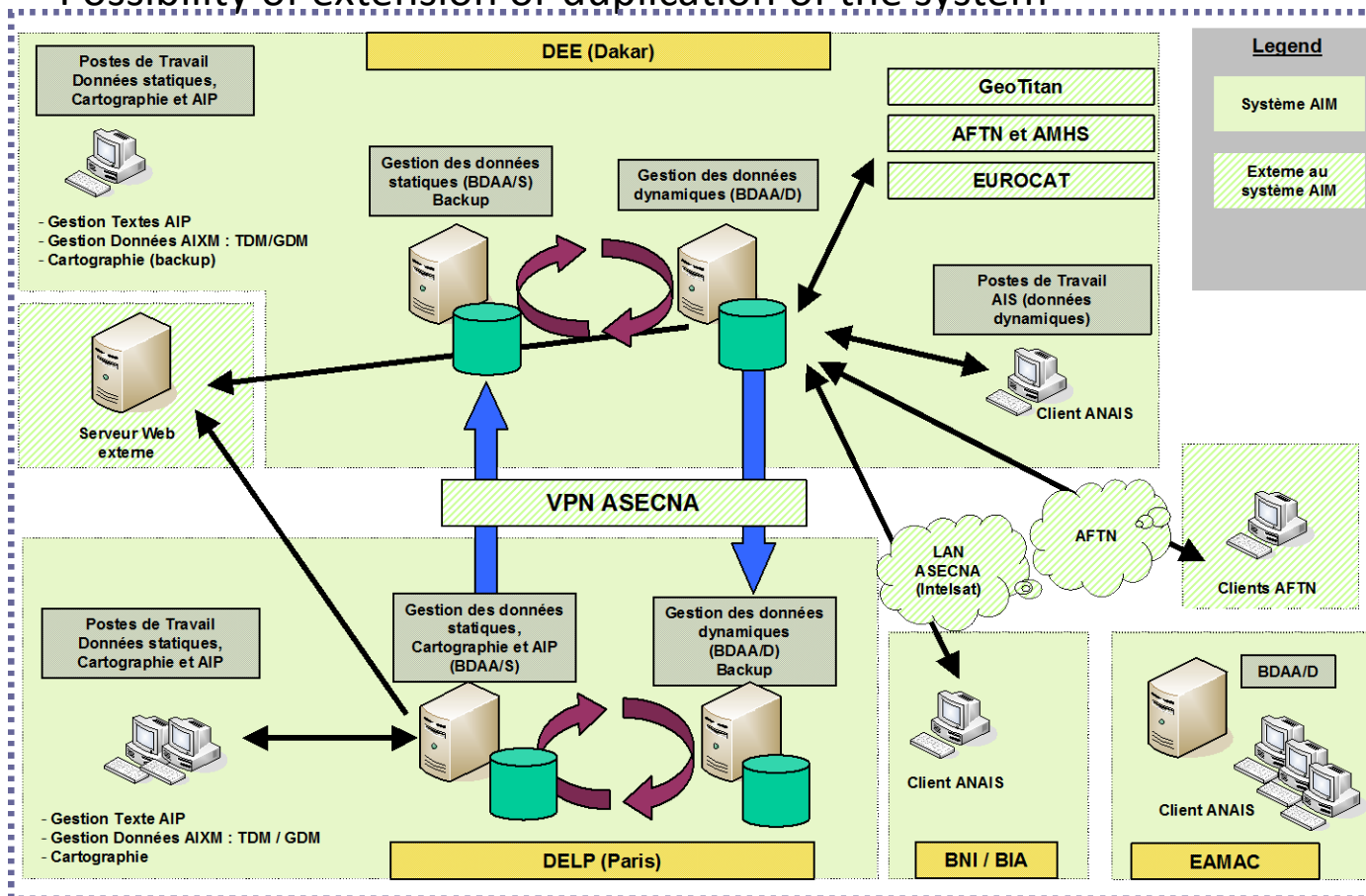


AIM System for ASECNA organisation (17 African countries)

-  Description:
 -  Full AIM solution composed of AIXM / eAIP / Charting / AIS
-  Specificities:
 -  Distributed Architecture on multiple sites
 -  Servers in Dakar and Paris
 -  Real time replication mechanisms
 -  AIS Terminals installed in 17 countries
 -  Integration of AIM system with existing Geotitan application
 -  AIP of 17 countries
 -  AIP Display on web server
 -  High volume AIP / Charts
 -  Compliant with New FPL 2012 format
-  Awarded in December 2010
-  SAT successful in January 2012

● Benefits of such a system for the AFI region

- Strong experience of large system
- Possibility of extension or duplication of the system



Challenges of ASECNA Transition from AIS to AIM



- **The main challenges of the ASECNA transition are:**
 - Implementation of a centralized aeronautical database able to ensure the reliability, the integrity and the availability of timely data;
 - Compatibility and easy exchange of data with other databases ;
 - Coherent automation of the main functions for the production of the different elements of the integrated aeronautical information package ; and
 - Facilitation of the interoperability with meteorological products and the flight plan management system.

Challenges of ASECNA Transition from AIS to AIM (2)



- **Conception and realization of the database:**

The database will be conceived in accordance with the aeronautical information conceptual model (AICM) / Aeronautical information exchange model(AIXM) endorsed by ICAO. The installation program is subdivided into two phases:

Challenges of ASECNA Transition from AIS to AIM (3)



— Stage 1:

- Installation of the static database and automation of the AIP functions and cartographic (2010-2011).
- The equipment system of management of an automated database AIXM and the automation of all ASECNA AIS/NOF/ARO/ briefing offices has been acquired.

Challenges of ASECNA Transition from AIS to AIM (4)



– Stage 2:

Installation of the dynamic database and automation of the NOTAM functions, PIB (Pre-Flight information bulletins) and Flight plans (2011-2013).

- **Exchange with other databases:**

ASECNA database will be in compliance with International Standards permitting exchanges with other operators. For this purpose, agreements of exchange could be established with EUROCONTROL/EAD and the AFI-CAD Group

- **Staff Training**

Training modules on the management of the aeronautical data has been implemented at EAMAC (African Civil aviation and meteorological Training center) to enable AIM personnel with training tools to update them with the new challenges of AIM.

- **AIM Quality Management System (QMS – AIM)**

With regards to implementation of an AIS Quality Management System as per Annex 15 chapter 3.2.1 and ISO Certification as recommended in Annex 15, chapter.3 paragraph 3.2.2., ASECNA has firmly put in place different QMS tools for AIM services.

Challenges of ASECNA Transition from AIS to AIM (5)



- **Implementation of the electronic terrain and obstacle data (eTOD)**

Studies are in progress on the realization of works concerning different zones specified by ICAO as per amendments 36 and 37 to Annex 15.

- **WGS-84 points maintenance and extension:**

WGS-84 network maintenance and extension works are on-going as foreseen in the ASECNA consolidated Plan of Services and Equipment (PSE).

CONCLUSION

ASECNA roadmap for the transition from AIS to AIM:

The different programs foreseen in the ASECNA transition plan are consistent with the ICAO Roadmap for AIS/AIM Transition as per attachment.

ICAO Stages	Objectives	ASECNA Plan Stage		
		I 2010-2011	II 2010-2013	III 2014-2018
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