



ASECNA CENTRALISED DATA BASE (1)

- **Main challenges**

- 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 and **contribution to AFI-CAD implementation** ;
- **Coherent automation** of the main functions for the production of the different elements of the integrated aeronautical information package ; and
- Make effective **interoperability with meteorological** products with AIM and the flight plan management system.

ASECNA CENTRALIZED DATA BASE (2)

ASECNA DATA BASE SYSTEM

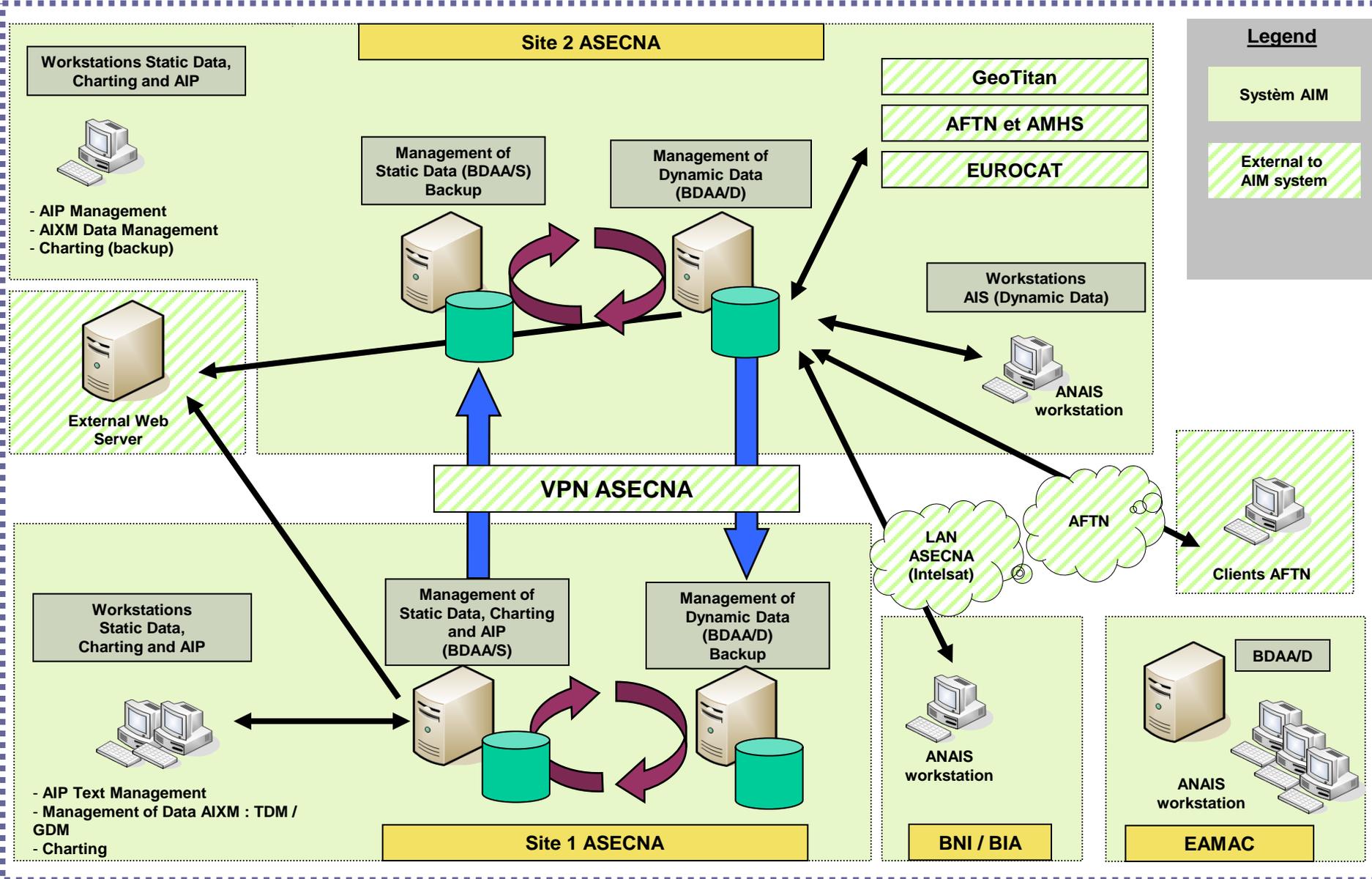
- Description:
 - Full AIM solution includes : AIXM+ / eAIP / Charting / AIS
- Specificities:
 - **Distributed Architecture on multiple sites**
 - 2 Servers for static data base (acting and back up) ;
 - 2 servers for dynamic data base (acting and back up);
 - Real time replication mechanisms;
 - AIS Terminals (linked with dynamic database) are installed in 17 countries for AIS aerodrome units and NOTAM Offices (3 NOF);
 - 1 training server at EAMAC in Niamey (ASECNA training center);
 - **Interoperability of AIXM data-base with IAC design application « GEOTITAN » for IAC charts production;**
 - **Edition of national AIP for the 17 members states;**
 - AIP Display on web server;
 - Dynamic data base is compliant with New FPL 2012 format.
- 2013 : static data migration has began with progressive operation;
- 2014 : static data will be in full operation.

AUTOMATION BASED ON DATA BASE

AUTOMATION OF AIM ACTIVITIES

- AIP activities: AIP Amendment and eAIP production;
- Charting activities: chart elaboration and production with an GIS application;
- NOF activities: NOTAM validation and publication, NOTAM check list edition;
- AIS/ARO activities: NOTAM proposal edition, PIB edition, FPL and ATS messages validation and transmission.

AIM ASECNA Architecture





COMPLIANCE WITH ROADMAP STEPS

- ASECNA Centralized Data Base gives satisfaction to the four steps of AIS AIM road map:
- - **P07** : Unique identifier;
- - **P08** : Aeronautical Information Conceptual Model;
- - **P06** : Integrated Aeronautical Information Data base;
- - **P11**: Electronic AIP.

ASECNA DATABASE FOR COOPERATION AND EXCHANGE



- **Regional cooperation for AFICAD implementation**

ASECNA Database should be in the framework of AFI-CAD implementation, used as a regional data base for other African states which would desire. Modalities of operation will be defined by common agreement with all stakeholders under ICAO technical assistance.

- **Exchange with other databases:**

ASECNA database compliant with AIXM/AICM should exchange with other data base.

Exchange should be establish with ATNS data base in the framework of inter-regional cooperation (AFI-CAD), and with EUROCONTROL/EAD Group in the framework of international cooperation.

AIM ASECNA with a connected country

