

## C-AIM

### COMSOFT'S AERONAUTICAL INFORMATION MANAGEMENT

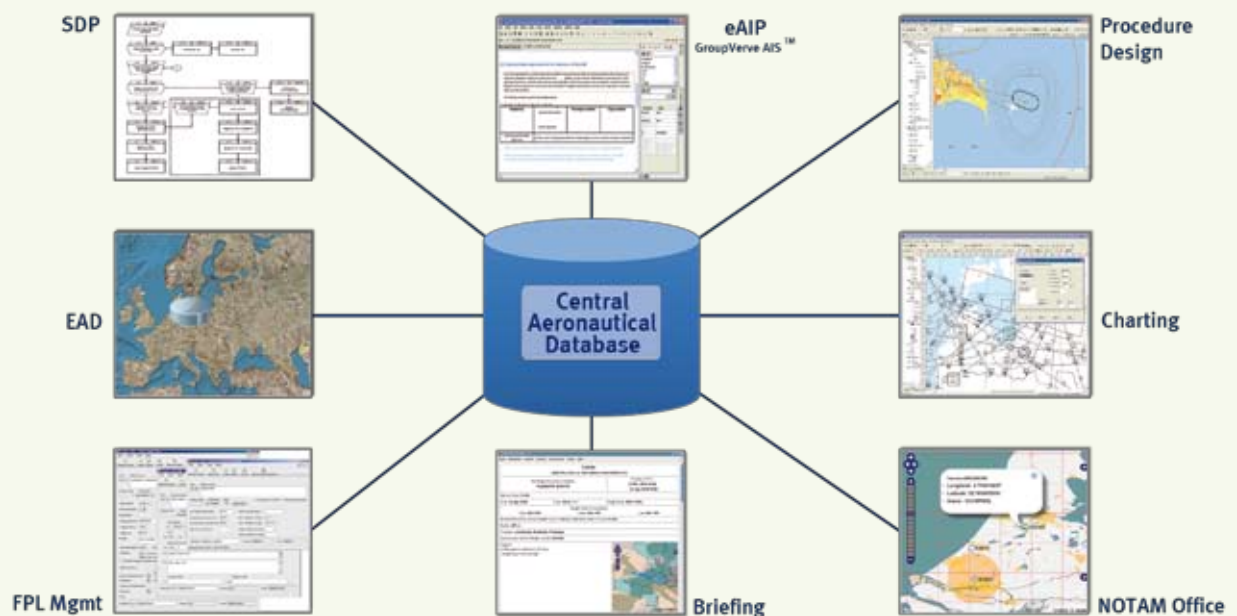
#### HIGHLIGHTS

- Central AIXM 5 Database
- Static Data Management
- Charting & Procedure Design
- Electronic AIP
- NOTAM, OPMET & Briefing
- FPL-Management
- EAD System Interface (ESI)

# COMSOFT

## INTRODUCTION

COMSOFT's Aeronautical Information Management solution is a new generation of Aeronautical Information Systems. C-AIM integrates a best breed of market leading applications for all AIS related tasks such as electronic AIP, Charting, Procedure Design, NOTAM/TAM, MET/ROBEX, Briefing, including FPL management. Airspace users and ATM operators both benefit from information of superior quality and integrity due to a native AIXM 5 implementation and completely digital data originator integration.



*CADAS-AIM<sub>DB</sub> Components & Products*

COMSOFT's AIM system is fully in line with latest and upcoming AIM standards as laid out in ICAO Annexes and Manuals as well as European and national regulations. The C-AIM solution has been created to enable a smooth and cost-effective AIS to AIM migration.

Built on top of sound and modern concepts like AIXM 5 and SOA, COMSOFT's AIM solution seamlessly fits into virtually any AIS infrastructure. Interoperability is guaranteed by supporting various external data formats like AIXM 4.5, ARINC 424 or even proprietary ones. Full integration with the European AIS Database (EAD)

immediately opens up access to a large set of validated and quality-checked data.

A modular system design facilitates a step-by-step replacement of existing AIS equipment. The central aeronautical database CADAS-AIM<sub>DB</sub>, which is based on a mature and unique AIXM 5 implementation, plays a crucial role for a low-risk migration at moderate cost impact. Of course, COMSOFT supports migration planning and execution fully in line with customer requirements and wishes.

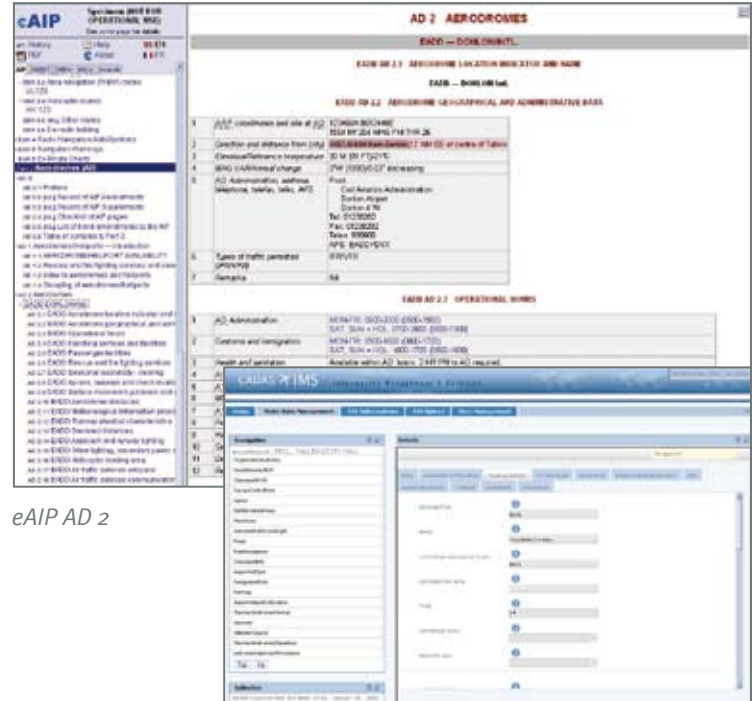
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In a few years all systems based on AIXM 4.5 or proprietary data exchange formats will have to be updated in order to fulfil ICAO requirements. As AIXM 5 is a paradigm shift, simple upgrades of current systems will not be possible and the migration cost for an AIXM 4.5 system to an AIXM 5 system will be significant.

In order to provide an economic approach COMSOFT developed an AIM solution fully based on AIXM 5. Although this new data format is not an operational requirement yet it provides clear advantages where anterior exchange formats lack compliance.

- European standards: Only an AIXM 5 based system is compliant to Aeronautical Data & Information Quality (ADQ), which will become effective in 2013.
- Complete aeronautical data set: Support for obstacle data in line with eTOD requirements, digital NOTAM, RNAV procedure encoding as required by the latest ICAO PANS-OPS specification.
- SESAR AIRM (ATM Information Reference Model): AIXM 5 defines the standard and there is no intention to change the already agreed fundamentals of AIXM.
- Interoperability: Mapping rules between AIXM 4.5 and AIXM 5.1 are quite detailed and already implemented by COMSOFT. Therefore, integration and interfacing with systems based on older AIXM versions is feasible.
- EAD compatibility: The EAD is on a clear and undeniable way to an AIXM 5.1 implementation and is committed to implement AIXM 5.1 in 2012.

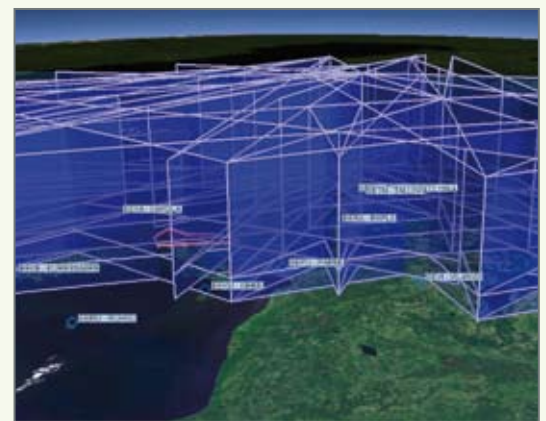
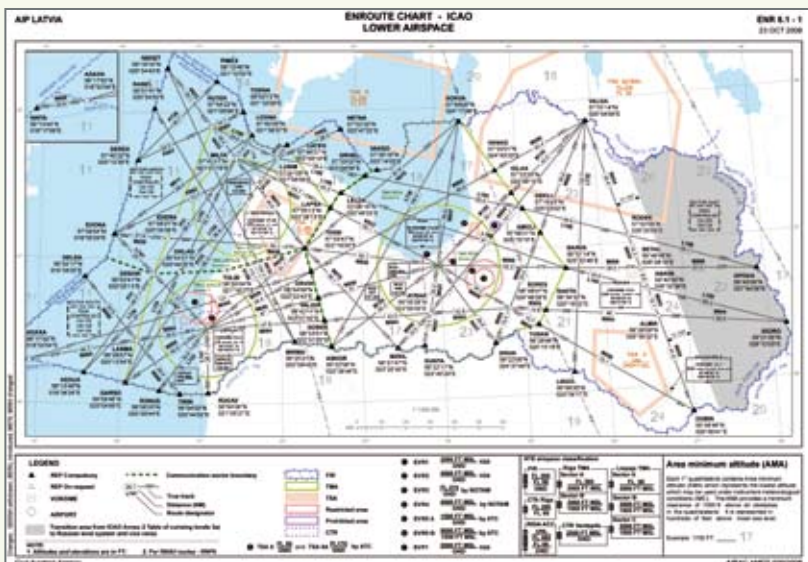


eAIP AD 2

AIXM 5 Data

AIXM 5 is based on the following standards

- ISO 19107:2003 Spatial Schema
- ISO 19108:2002 Temporal Schema
- ISO 19115:2001 Metadata
- ISO/IEC 19501:2005 Universal Modeling Language (UML)
- Extensible Markup Language (XML)
- ISO 19136:2007 Geography Markup Language (GML)
- ISO 19139:2007 Metadata XML Schema Implementation



Route Segment 3D



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