AIXM Modules

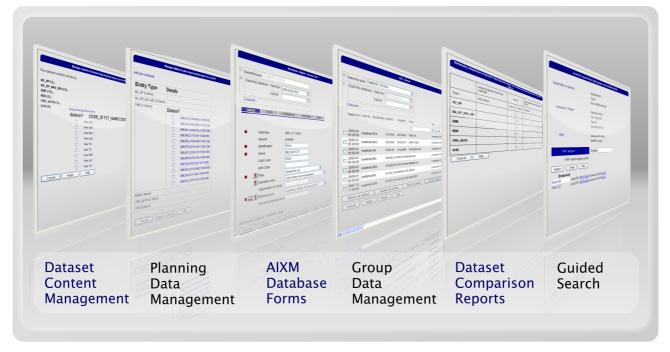| Dataset Content Management | Planning Data Management | AIXM Database Forms | Group Data Management | Dataset Comparison Reports | Guided Search |

M-AIS AIXM Database

The Managed-AIS AIXM Database system is a central repository for static aeronautical data. The main objective of the system is the safe storage of high-quality aeronautical information for Aeronautical Information Management and AIP publishing purposes.

The core of the system is the AIXM Static Database Server which utilises Oracle 10g/11g and Apache Tomcat to serve the data to web based clients. The standard system comes with user management, AIXM forms and guided search facilities.

The latest Version of Managed-AIS AIXM database client software includes a unique new web-based interface for data entry and data management. The HMI provides safeguards against entering data that is incorrectly formatted, orphan data and entries that do not conform to the AIXM rules.

Modular System Functions

The upgrade modules that are available are:

- Dataset Management
- AIXM Import/Export
- Group Data Management

- Planning Data Management
- AIS Data Exchange Processor

Module Descriptions:

Dataset Management Module

The dataset management module is used to easily identify the properties of a particular set of data entities. A dataset is an overall management tool for the selection and identification of data groupings within the database. The Dataset consists of a unique name and metadata that identifies the origins and other related information about the data. Any entity or group of entities can be joined to one or more Datasets for the purposes of dataset comparison, import tracking, group data verification and export of selective datasets.

AIXM Import and Export

The AIXM data model is fast becoming the standard for AIS data exchange within Europe and around the world. It provides a much needed mechanism for moving and storing aeronautical data in a safe and valid way.

The system allows the import and export of standard AIXM. In conjunction with the Dataset module a user can import from external AIXM sources and export AIXM snapshot format by date or specific dataset. Data can be imported and exported from plans to allow the creation of 'what if' updates to legacy systems.

Even though the AIXM is extensive it is not entirely complete with regards to specialist domains such as Instrument Procedures Design (PANS-OPS). With these problems in mind Managed-AIS have extended the AIXM Snapshot format and allow the import and export of AIXM+ extended datasets for specialist client purposes.

Group Data Management

This system module allows the user to define and perform ad-hoc group updates of multiple entities. This means that time and effort can be saved when making duplicated changes to attributes on similar entity types. Grouped items can be assigned to plans and datasets for ease of content modelling and data export.

Planning Data Management

The Planning module allows users to validate planned changes to data before going live, providing a valuable space to pre-plan future events. The Tools allow:

- Creation of user-defined Plans
- Search for Plans by metadata
- Plan modification
- Copy of any entity to a Plan
- Activation of planned changes

Data for entities in a plan are entered into a plan via the view/edit/create, import and group data management functions of the system.

AIS Data Exchange Processor: Legacy Data/System Support

This application is ideal for clients who currently update multiple legacy systems with aeronautical static data and wish to use a single source of data. The system allows the user 100% flexibility in the creation of complex process chains that can include such features as CRC checks, alphanumeric checks, logical sorts and column switching.

The system allows users to define graphical mappings between legacy formats and the AIXM Snapshot format; they can then import data to the core system for safe storage and comparison. AIXM snapshots can also be exported back out from the core AIXM database. Legacy file formats can be remapped back out from the validated data and exported safely to populate legacy systems.

System Requirements:

The Client System:

- OS: Any
- Browser: Internet Explorer, Mozilla Firefox
- RAM: 1 GB
- Video: SXGA/UXGA

The Server System:

- Capable to run Oracle 10g or 11g
- Linux or Windows Server
- Apache Tomcat JSP Server
- 20GB (minimum free space)