

AEROPUB

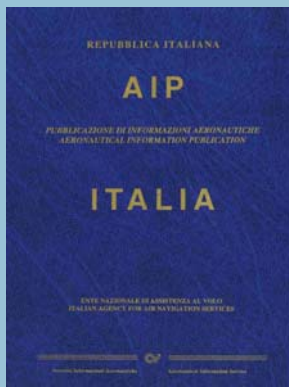
Aeronautical publications production

An automated template-based system to create and maintain aeronautical publications

AeroPub is a comprehensive package matching the document production needs of Aeronautical Information Services (AIS/AIM) organizations of civil and military aviation authorities, ANSP. IDS experience within ANSP and Civil Aviation Authorities worldwide in charting and publishing brought to a solution that allows the users to create, manage and deliver State Publications and Static Data with safety and integrity. IDS delivers as AIP production solution (paper, PDF or eAIP) the application **AeroPub** with all the ICAO default publication templates. Management of AIS data is guaranteed through the IAS Data Management Suite (GfeaMan and Feaman). **AeroPub** is capable of extracting information from the Aeronautical Database (the IDS AeroDB, AIXM and ARINC compliant) and of generating an ICAO compliant Aeronautical Information Publication possibly integrated with user-defined rules.

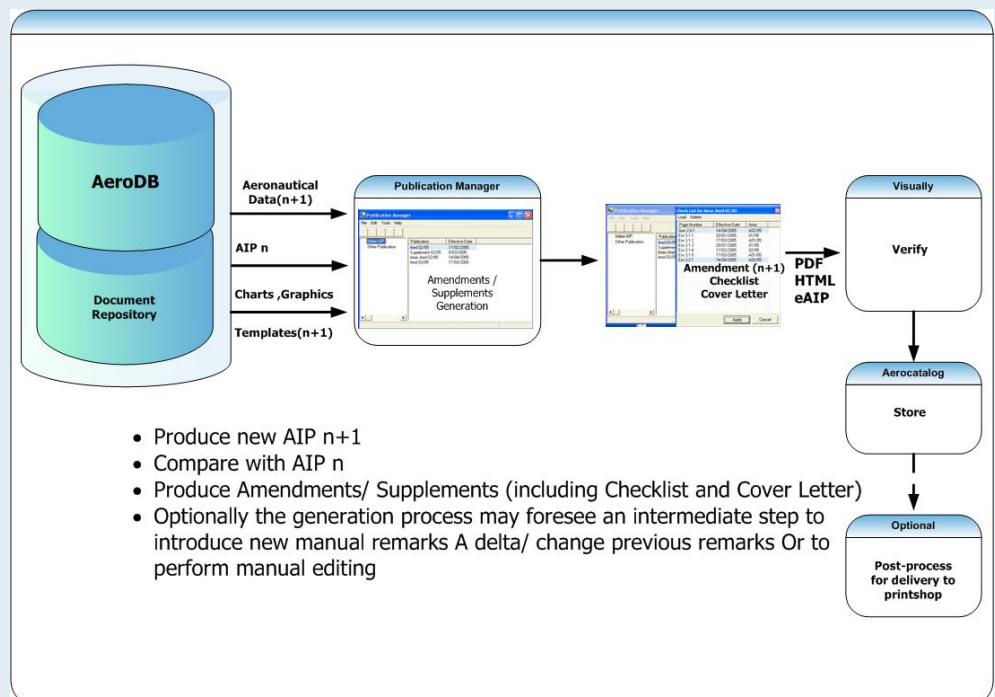
The problem

According to the requirements of ICAO Annex 15 each State is required to publish an Integrated Aeronautical Information Package including an AIP. The manual process of producing Aeronautical Publications is time consuming and can be affected by random errors.



The solution

AeroPub allows strong control of the processes managing the aeronautical information contained in a Publication and provides high level of automation.



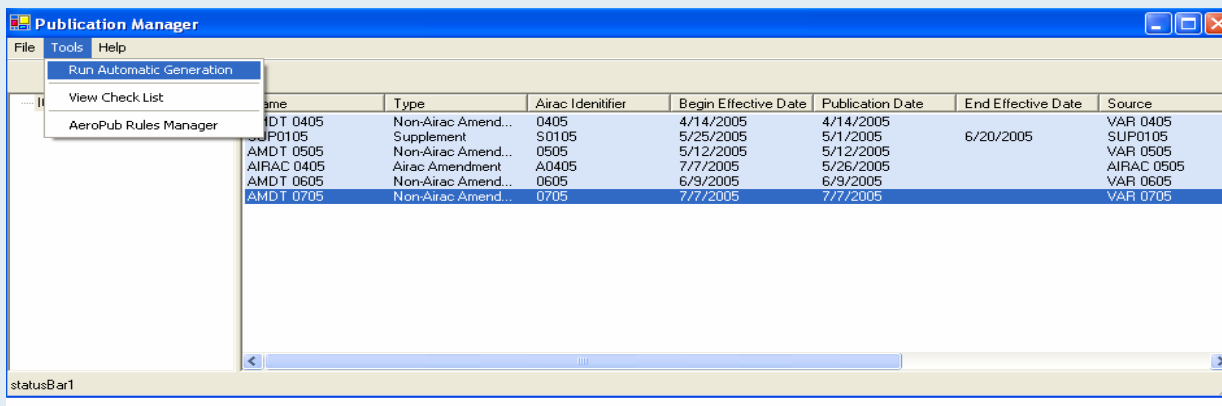
AIP Production workflow using AeroPub

Document Generation & Amendment Builder

AeroPub Document Generation provides the capability to easily extract and generate a publication according to user-defined rules. The entire process is supported by a powerful cataloguing tool (AeroCatalog) that manages all the templates available and all the publications produced.

In order to produce the next AIRAC cycle AIP Amendments the operator will:

- Select the publication to be produced from those stored in the Document Repository. Different documents can be chosen (e.g. the whole AIP or only some of its sub-sections)
- Select the effective date for which the publication is to be produced
- Click the button to generate the publication



AeroPub automatically:

- Extracts the valid information from both AeroDB and the Document Repository (aeronautical data and chart, texts) valid at the selected effective date
- Builds the publication structure for the new AIRAC cycle according to the rules stored in the system and the latest produced document version
- Inserts each aeronautical chart in the proper section of the AIP
- Starts the publishing engine (Adobe® FrameMaker®) environment and creates the new AIP
- Generates the AIP Amendments by comparing the new AIP with the last produced version and marks differences with change-bars, updating the pages dates
- Stores the produced documents in the repository
- The documents can be output in multiple formats (XML, HTML, PDF, MIF, etc.), making use of the native publishing engine output capabilities.

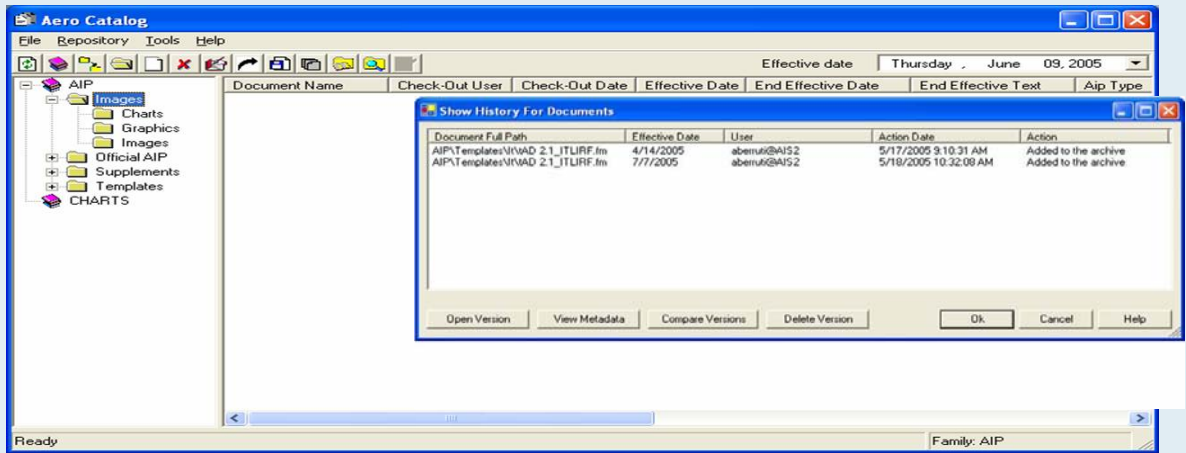
[Authoring](#)

AeroPub allows handling of multiple types of documents produced by different users and tracks their history up to the latest version. This is true for the aeronautical features stored in the database, for the textual parts of aeronautical publications, and even for the aeronautical charts.

Historical versions are archived with their effective date of publication and the information about who modified the document.

[Document cataloguing](#)

All the documents, textual data, templates and charts are stored in a centralized document repository. A specific application (AeroCatalog) manages the document cataloguing, consulting, modifying and tracing. The user is able to query the repository by document structure, temporality, operators (owners) of changes, etc.



The electronic AIP(eAIP)

With the increasing needs for sharing information using the fastest and cheapest means, it is good for an AIS organization to maintain and publish an electronic version of the AIP based on the XML format. This choice is supported by:

- Reduced size of documents
- Full ICAO compliancy
- Independence from proprietary systems (Databases, Word Processors, etc)
- Easy usage and browsing
- Simple migration of existing documents to other formats (PDF, Word, etc.)

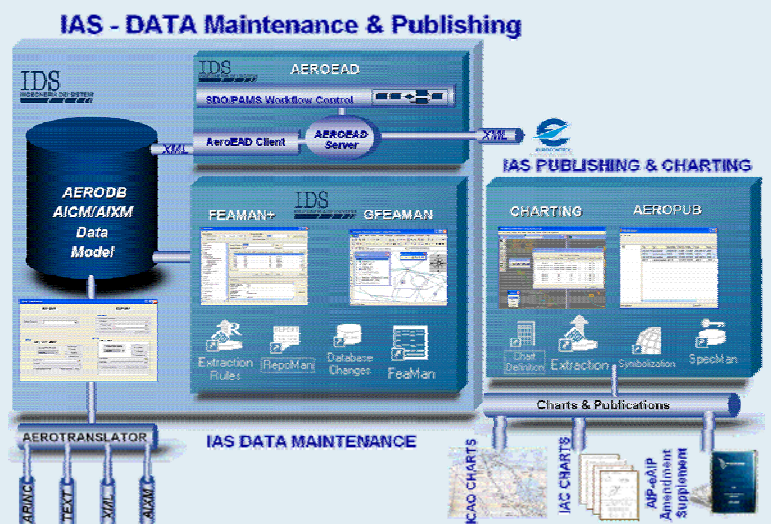
Although the ability to produce XML documents is a native feature of the publishing engine, **AeroPub** makes use of a dedicated built-in XML generator, compliant with the Eurocontrol standard, to produce a true electronic AIP (eAIP) for the web environment.

Main Aeropub features

- Text amendment tracking
- Database managed file control (Check - In /Out)
- AeroCatalog to Store the "external" information needed to be published
- Automatic page effective dates assignment
- Automatic change bars creation
- Automated list of AIP pages creation
- Automated checklist of AIP creation
- Automated cover page creation
- Automatic AIP error reports generation
- Temporality of Database ensured by AeroDB
- Amendment Cycle Support
- Multi-User Environment
- Database management tools
- Eurocontrol Validation Rules Support
- SVG Graphics Support
- Full output options: XML, HTML, PDF/Paper

eAIP Solution

- Automated eAIP template creation
- Fully compliant with eAIP Standards
- Guided Authoring Feature
- Full DTD Validation Suite
- Eurocontrol Validation Rules Support
- SVG Graphics Support
- Full output options: XML, HTML, PDF/Paper



Fullfilling user requirements

AeroPub is delivered with all the templates for the ICAO Aeronautical Information Publication (AIP). All the templates are ready to use. IDS can provide services to configure the database, the templates and rules according to local specifications. Users have the ability to configure the AeroDB and/or **AeroPub** without the need of purchasing custom software.

Being completely flexible and able to handle multiple types of documents, **AeroPub** is extremely useful also for the production of many aeronautical publications (Supplements, AIC, etc.).

Within **AeroPub** two macro levels of Publishing Users Types are foreseen at Application packaging level and Application Usage rights:

AeroPub Administrators: AeroPub Rule Manager Functionalities, Final Publication Storage in AeroCatalog, Intermediate (Test) Publication generation, review and discard (no storage in AeroCatalog), AeroCatalog full management (Administrator Role, deletion, structural changes, metadata handling etc...)

AeroPub Operators: AeroCatalog Editing Functionalities for Publication text management, DB Data Management Tools (FeaMan), Intermediate (Test) Publication generation, review and discard (not stored in AeroCatalog)

Aeronavigation Division

IDS Aeronavigation Division was established in 1993 and nowadays provides worldwide the most comprehensive and integrated selection of aeronautical software solutions available in the Air Transport Industry.

IDS Aeronavigation Division counts on the largest customer base in the AIS industry for static data processing and has been working with leading AIS organizations to develop flexible solutions that accommodate ICAO, EUROCONTROL and custom requirements.

The modular system architecture provides appropriate solutions for Civil Aviation Agencies, Air Navigation Service Provider airlines, cartography producers or other organizations. The solution grants an integrated environment from Data Collection to Data Exploitation.

IDS Aeronavigation Division provides a range of services (consulting, training, implementation services, etc.) to help the customer to get a successful start and protect his investments. The division's history major milestones were the first purchase order of one of its SW tool outside Italy (1997) and the acquisition of the Intergraph aeronautical solutions (2003).

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