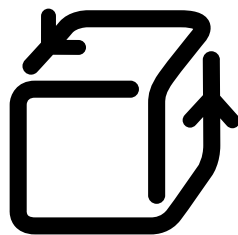




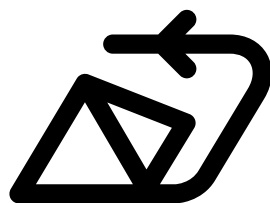
eSDO.wiz@rd

The Aeronautical Static Database

Edition AIXM 4.5 & 5.1



eSDO.wiz@rd



eTOD.wiz@rd

ICAO Integrated Aeronautical Package

ICAO has established Standards and Recommended Practices which require all contracting states to introduce a properly organised quality system. This ensures that the integrity classifications of all aeronautical data are achieved in order to assist the implementation of the ICAO CNS/ATM concept.

The integrity of aeronautical data is to be maintained throughout the data process from survey/origin to distribution to the next intended user (ICAO Annex 15, Chapter 3.2.8).

The Static Data Operations Wiz@rd (eSDO.wiz@rd), has been developed to assist in automating the ICAO quality system and to support the user in the workflow process of receiving, approving, and storing aeronautical data in a consistent and timely manner.

Human Machine Interface

The eSDO.wiz@rd consists of a user friendly Windows based interface for data entry and approval. The Windows menu structure is designed to ensure the proper workflow of all data through the entire AIS and Static Data Process.

eSDO.wiz@rd Features

The eSDO.wiz@rd provides the user with integrated quality process management for the collecting all data necessary for the publishing of AIP, AIP Amendment, AIP AIRAC Amendment, AIP Supplement, AIP AIRAC_Supplement, and AIC, including aeronautical maps and charts as well as other applications.

The eSDO.wiz@rd provides the following features:

- Data Storage
- Workflow Management
- Data Management
 - Aeronautical Data
 - Obstacle Data
 - Terrain Data
 - Aerodrome Mapping Data
- Change Management
- Data Interface Management
- Data Import/Export.

Data Storage

The database is a physical implementation of the Aeronautical Information Conceptual Model (AICM). The implementation ensures extensibility for relations and additional entities or attributes according to national and other requirements such as from airlines.

The database is fully temporal, which means it is able to handle the current version of the data together with the past and future versions and display a complete history of all changes.

To increase data integrity and avoid human errors, eSDO.wiz@rd provides a "4-eyes" mode in which all operationally critical changes have to be entered by two operators and can become operational only if the entries are the same.

Workflow Management

The eSDO.wiz@rd workflow ensures that the raw data received is assessed, approved and stored in a predetermined sequence and that all actions are legally recorded. This function is compliant with RTCA/EUROCAE Document DO200A/ED76, European Commission Regulation No. 73/2010 (ADQ) and fulfils all requirements to backtrace all activities from initial source and value to final use and value within the eSDO.wiz@rd.

Change Management

The eSDO.wiz@rd automates the collection of updated data to existing work packages. The storage, linkage, and approval of all updated data is part of this process.

Data Import/Export

eSDO.wiz@rd provides comprehensive tools to import data from various formats including AIXM and DAFIF, avoiding the need for manual retyping.

The data, once approved and stored, can be made available by accessing it from the various applications or by exporting it. An interface definition capability is used for this. The Aeronautical Information Exchange Model format (AIXM 4.5 and AIXM 5.1) and ARINC424 are the most used interfaces.

For data exchange with the European AIS Database (EAD) the EAD System Interface (ESI) package is implemented. It supports the concept of private and public slots.

NOTAM Management

The eSDO.wiz@rd provides links to all NOTAM in the NOTAM database which affect the static data.



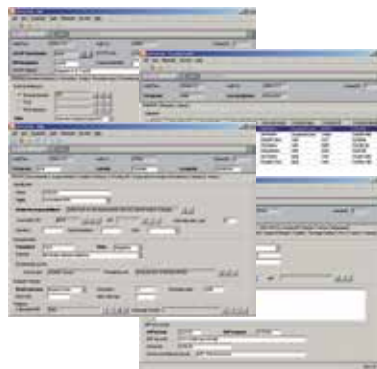
Aerodrome Mapping Data

eSDO.wiz@rd supports Aerodrome Mapping Databases (AMDBs), which represent the topography of airports by vector data and by attributes with additional information. AMDBs can be used as the basis for aerodrome chart generation and for visualisation of NOTAMs. In order to be compliant with RTCA/EUROCAE Documents DO-272B/ED-99B and DO-291A/ED-119A, the AICM model has been extended with additional attributes.

Terrain and Obstacle Data

ICAO has published Amendment No. 33 to Annex 15 which extends data provision for contracting states to terrain and obstacle data in electronic form.

The eSDO.wiz@rd can be extended by the Terrain and Obstacle Data Wiz@ard (the eTOD.wiz@rd) to be able to collect



and maintain the full set of data required by ICAO Annex 15, in order to provide terrain and obstacle data in electronic form.

Expansion Capabilities

The eSDO.wiz@rd also provides supplementary mechanisms allowing customers to store extra information not covered by the AICM model. One possibility is to define additional attributes to any SDO feature to store customer specific data. Another is to use metadata that allows attaching unlimited additional information to any feature or attribute in the database (such as quality or data source information).

System Requirements

The minimum system requirements are:

- Server
Oracle 10g
- Operating System
Client: MS Windows XP, 7
Server: Oracle 10g supported platforms
- Hardware
Client: Intel Core 2 Duo CPU (2.20 GHz), 2 GB RAM, 500 MB disc space
Server: Quad-core CPUs (2.83 GHz), 4 GB RAM, 2x 500+ GB disc space

Conformance Statement

The eSDO.wiz@rd is designed to assist the implementation of an ICAO Annex 15 recommended Quality System for AIP Departments of state AISs and organisations working on behalf of states to publish AIPs and data. It also forms the basis for the introduction of the ICAO requirements for Electronic Terrain and Obstacle Coverage Area Data Provision according ICAO Annex 15, Amendment 36.

The implementation of the requirements of the European Commission Regulation No. 73/2010 (ADQ) and Eurocontrol Static Data Procedures (SDP) is ensured. The current database conforms to AIXM 4.5 and AIXM 5.1 and is always ready for its successor editions in the future.

The RTCA/EUROCAE Documents DO-272B/ED-99B, DO-276A/ED-98A and DO-291A/ED-119A concerning Aeronautical, Terrain, Obstacle and Aerodrome Mapping Data and exchange are taken into account in the design.

Avitech GmbH

Bahnhofplatz 1
88045 Friedrichshafen / Germany
Phone: +49 (0) 7541 282-0
Fax: +49 (0) 7541 282-199
www.avitech.aero

Avitech s.r.o.

Prievozska 4
82109 Bratislava / Slovakia
Phone: +421 (2) 5564-2801
Fax: +421 (2) 5564-2803
www.eaip.info

Avitech GmbH

Strahlenberger Weg 6
60599 Frankfurt a. M. / Germany
Phone: +49 (0) 69 6060-9894
Fax: +49 (0) 69 8999 03 01
marketing@avitech.aero