Data4Flight® is a solution dedicated to aeronautical data management with philosophy that promotes an intuitive and easy to use approach to data management in order to maximize user efficiency and promote interoperability through standards based aeronautical data exchange.

Data4Flight®
A solution dedicated to aeronautical data management.
Data4Flight® integrates Aeronautical Data Quality (ADQ) principles defined by EUROCONTROL and ICAO Annex 15 amendment 37. It is aiming at ensuring integrity along the data life cycle.

Main Features:
> Collect and exchange: Data can be imported from various data formats (AIXM, ARINC 424 or 816, GéoTITAN®, Vector data, etc. - Aeronautical Data including procedure and airport mapping database - Vector data - Raster & DTM data
> Visualize: Using an intuitive graphical user interface based on DotSpatial®, users can easily navigate the data structure.
> Store: Data4Flight® supports connecting to a variety of temporal, spatial, and relational database management systems such as PostgreSQL, SQLite.
> Verify data quality against the aeronautical data business rules (ADQ, INSPIRE, custom rules set).

Available Extensions:
> Chart4Flight® extension: Recognizing the need for procedure designers to rapidly create data driven charts from newly designed procedures, CGX has created a new extension to Data4Flight® called Chart4Flight®.
> Procedure Encoder extension: Enabling the automatic handling of the GéoTITAN® produced data (PBN, CAD and conventional designed procedures), the Procedure Encoder gives access to automatic procedure coding features that include verification regarding the ARINC-424 standard. Additionally it provides the resulting data in AIXM 4.5 format.
> Obstacle Limitation Surface (OLS) extension: Providing users with the capability of automatic computation of ICAO annex 14 surfaces, automatic computation of obstacle penetration (for both DTM and man-made obstacle), and 3D view of the surfaces and penetrating obstacles based on Google Earth® export. Automatic report generation is planned for next version.
> Airspace4Flight® extension: Dedicated to Airspace design and enroute routes modelling and management.
> GroundValidation4Flight® extension: Addresses the requirement of procedure design ground validation step (STEP 8: Ground Validation and Criteria Verification) before proceeding to Flight Validation step and then publication. As indicated in the Quality Assurance Manual for Flight Procedure Design (ICAO Doc 9906).
> Chart4Flight® extension: Recognizing the need for procedure designers to rapidly create data driven charts from newly designed procedures, CGX AERO has created a new extension to Data4Flight® called Chart4Flight®.

Workflow:
> Aeronautical data stored in the Data4Flight® AIXM 5.1 compliant aeronautical database are used to create draft charts using the Chart4Flight® extension. Procedure data can be imported easily from GéoTITAN® Procedure Design software and stored in Data4Flight® database with correct encoding that facilitates the creation of the charts out of the database. Aeronautical data can also be exchanged between the Data4Flight® database and an external AIXM reference database by using AIXM files.
> In accordance with ADQ and ICAO Annex 15 amendment 37, CGX AERO is deeply involved in enhancing data quality consisting in full data traceability and process-based integrity using full automation of data exchange and embedded checking and validation features.

Speak with a product specialist

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