Product brief: CADAS-Charting
GIS-based charting tool

CADAS-Charting is a powerful GIS-based charting tool for the production and maintenance of all types of aeronautical charts. CADAS-Charting is based on AIXM 5.1 and allows the creation of data-driven charts. Employing a data-centric approach, the latest aeronautical information is taken from an AIXM 5.1 data repository (e.g. CADAS-AIMDB) and used to automatically implement data changes into all charts. CADAS-Charting supports the creation of both ICAO-defined and custom charts. The system is based on GeoMedia GIS which provides all geospatial functions.

CADAS-Charting is integrated with the Publication Management component. This is a browser-based application for the management of documents and publications, and it simplifies and coordinates the publication process. It also provides an interface to external systems such as EAD PAMS. Publication management contains integrated workflows to allow the tracing of publication steps for legal recording purposes.

CADAS-Charting can be paired with CADAS-AIP to create a complete tool for the creation of integrated Aeronautical Information Publication materials, including aeronautical charts. It enables the generation of AIP materials in easy-to-use publication packages, for both digital and paper formats.
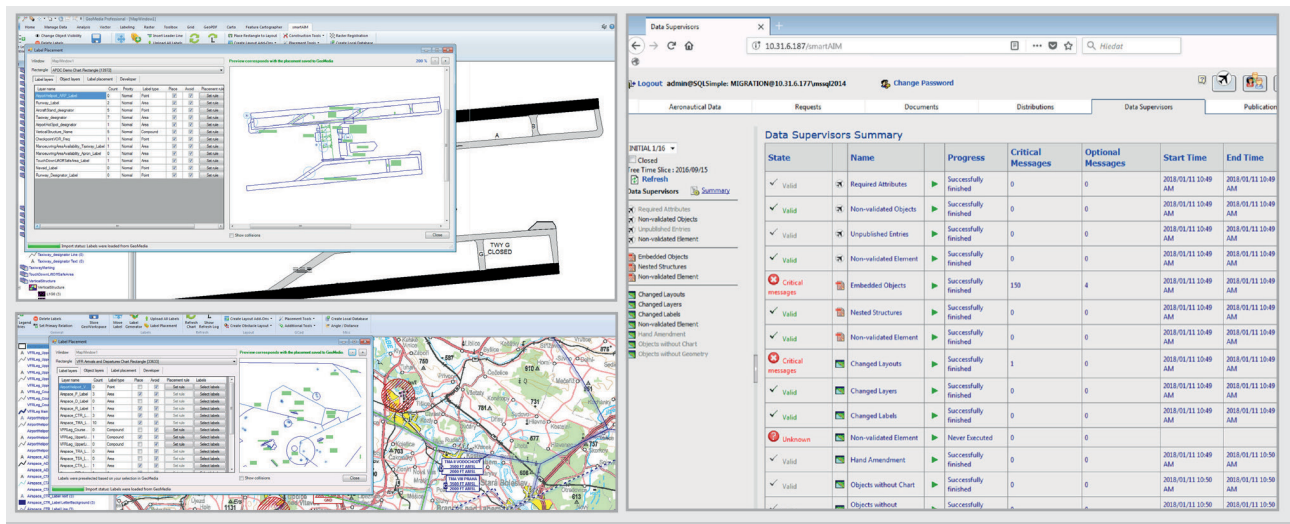
Key features

- GIS-based
- Fully customisable symbolisation and layout for outputs
- Automated feature generator including instrument approach procedure (IAP) profile, compass rose, minimum safe altitude (MSA) rounds and a customisable scale bar
- Automatically generated tables in the chart layouts, e.g. inertial navigation system (INS) coordinate tables in aerodrome charts
- Data consistency checks and subsequent chart updates in an automated fashion based on changes to AIXM 5.1 data
- Easy creation and definition of chart labels, layers and symbols
- Easy-to-use publication packages

CADAS-Charting & publication management at a glance

- Fully compliant with ICAO Annex 4/Doc 8697
- Delivered with a full set of templates for data-driven chart types defined by ICAO Annex 4
- Fully integrated with CADAS-AIP, which supports the end-to-end creation of AIP in both paper and digital formats
- Supports transition from CAD to GIS-based charts using native GeoMedia functions

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Benefits

CADAS-Charting and Publication Management combine to form a sophisticated tool for creating fully data-driven aeronautical charts. By utilising a single source of data from the AIXM 5.1 database, the same data is used for both chapters and charts, which eliminates potential data errors from multiple sources of input.

Together with CADAS-AIP, Aeronautical Information Publication materials are provided printed in PDF (AIP) as well as electronically in HTML (eAIP) formats. The solution includes a complete set of templates for all AIP charts as defined in ICAO Annex 4.

Facts and figures

Compliance with industry standards	ICAO Annex 4/Doc 8697
GIS integration	Seamless integration with Hegaxon GeoMedia
Chart formats	All types of aeronautical charts, ICAO Annex 4 and custom charts
Output formats	PDF, HTML