

# Datasheet: smartCharting

## GIS-based charting tool

smartCharting is a powerful GIS-based charting tool that enables the production and maintenance of all types of aeronautical charts. The smartCharting system is AIXM 5.1 based, directly connected with the AIXM 5.1 data, and allows creation of data-driven charts. The system is based on GeoMedia GIS functionality and supports all geospatial functions. The management and publication of digital aeronautical charts based on the AIXM 5.1 data produces aeronautical information in easy-to-use publication packages, for both digital and paper formats.

In order to further facilitate the chart structure in AIP publication, the system offers an UI called the smartWebClient. The browser-based application manages documents, publications and aeronautical information. Workflows are an integrated part of the functionality to allow tracing every step of these processes.

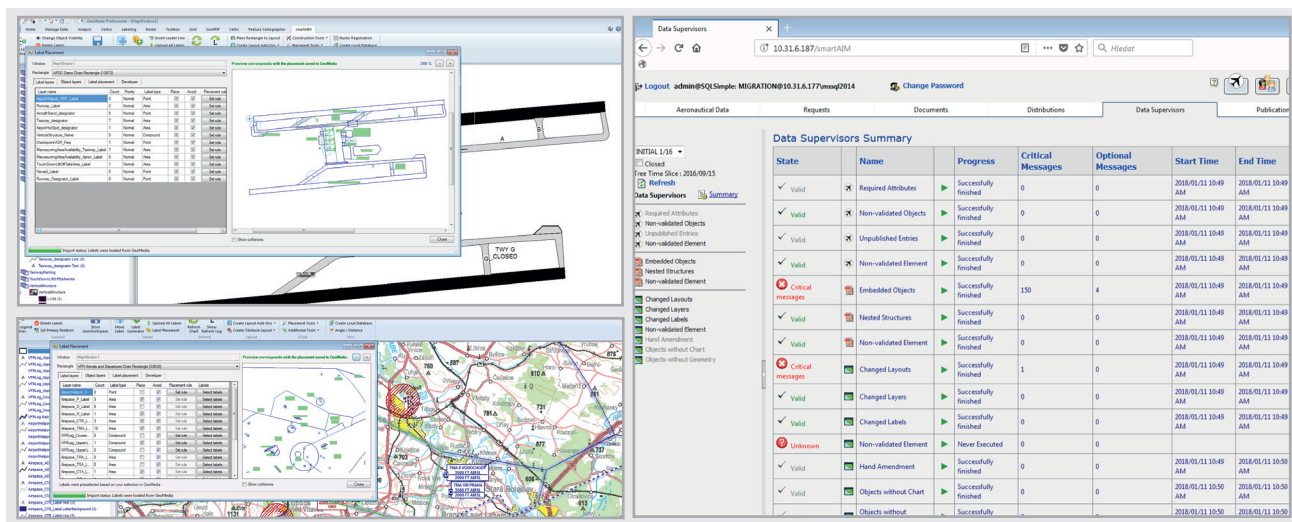
### Key features

- GIS-based
- Fully-customisable symbolisation and layout for custom 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
- Perform data consistency checks and subsequent chart updates in an automated fashion based on AIXM 5.1 data changes
- Easily create and define chart labels, layers and symbols
- Easy-to-use publication packages



### smartCharting and smartWebClient at a glance

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



## Benefits

smartCharting and its database interface smart-WebClient are sophisticated tools for creation of 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 smartAIP, Aeronautical Information Publication materials are provided both printed in PDFs (AIP) and electronic HTML (eAIP) formats. A complete set of templates for all AIP charts as defined in ICAO Annex 4 is included in the solution.

## Technical specifications

Industry compliance	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	HTML, PDF

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