



ArcGIS® Aviation Charting

Data-driven aeronautical chart production

What is ArcGIS Aviation Charting?

ArcGIS® Aviation Charting is a data-driven, geographic information system (GIS)-based chart production system designed to efficiently manage aviation data, products, and workflows to generate navigational products that are compliant with the International Civil Aviation Organization (ICAO) Annex 4 and Federal Aviation Administration (FAA) standards. It simplifies the typically complex task of aeronautical charting and ensures charts are kept up-to-date according to the Aeronautical Information Regulation and Control (AIRAC) cycle while allowing aviation authorities to focus on innovation, provide reliable and safe air navigation services, and promote business growth through accurate digital information products.

What can you do with ArcGIS Aviation Charting?

Aviation Charting is a geospatially intelligent system designed to efficiently produce charts and manage data for real-time situational awareness and airspace capacity optimization.

Benefits

- ✓ **Maximize efficiency:** Produce charts efficiently by automating workflows and streamlining how data updates are reflected on all related products.
- ✓ **Improve quality:** Use a standardized information model to prevent entering incorrect data and employ tools to automatically review and track edits.

How does it work?

Quickly generate ICAO Annex 4- and FAA-compliant chart products.

Collect and integrate: Exchange data with national and international agencies using industry-standard formats. Integrate with other systems to build a digital twin.

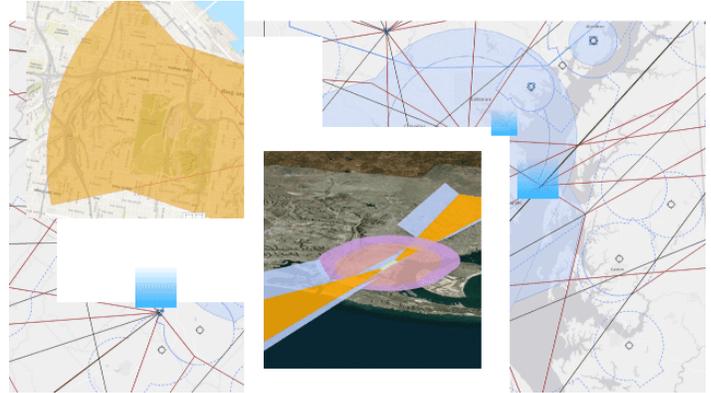
Manage and validate: Manage aviation data and business rules with repeatable workflows. Ensure data integrity and chart accuracy using built-in validation capabilities.

Produce and visualize: Generate compliant aeronautical charts from high-quality data. Visualize chart updates with change detection tools.

Share and collaborate: Enable better collaboration and engagement with stakeholders by publishing timely and trusted aeronautical information.

- ✓ **Get started quickly:** Deploy out-of-the-box template configurations to quickly stand up your production system and scale up to meet demand for new products.
- ✓ **Ensure safe air navigation:** Ensure safety of air navigation by providing authoritative, compliant, accurate, and consistent aeronautical data and charts.
- ✓ **Drive innovation:** Create new business opportunities through value-added content and on-demand data/charts. Gain insight into real-time flight traffic and monitor airspace traffic and more through configurable dashboards.

- ✓ **Meet mission-oriented objectives:** Contribute data-driven maps and apps and collaborate with other national agencies to coordinate emergency response.



Key Features

- ✓ **Aeronautical database:** Use out-of-the-box schema to create a database modeled after the Aeronautical Information Exchange Model (AIXM) and engineered to support data exchange and optimized for high-quality chart production.
- ✓ **Preconfigured templates:** Accelerate your implementation by leveraging preconfigured chart templates that can be customized to meet your organization's requirements.
- ✓ **Configurable business rules:** Automate chart production by using configurable rules to control which features are included, to symbolize a feature or assemble text, and to improve the overall readability of the chart.
- ✓ **Chart change reporting:** Identify metrics for charts that are impacted by changes to data and visualize how the changes affect chart appearance using a side-by-side view.
- ✓ **Specialized tools:** Derive additional information from your data to support advanced charting requirements such as line bypasses, complex airspace configurations, and display of coincident airways.

FOR MORE INFORMATION

Email aero@esri.com with your questions or to discuss how ArcGIS Aviation Charting could help your organization.



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