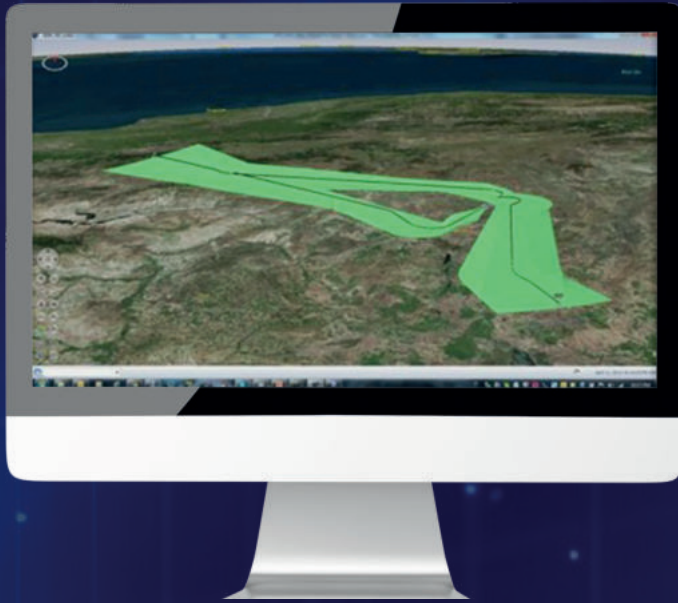


FPDAM

Flight Procedure Design and Airspace Management



- » FPDAM is IDS AirNav's market-leading solution for flight procedure and airspace design & maintenance. It provides an interactive 2D/3D environment that enables users to create, visualize, check and maintain instrument flight procedures compliant with international criteria. FPDAM is used by over 80 organizations in more than 50 countries, including ANSPs, Civil Aviation Authorities, Airlines, Military Agencies and Airport Authorities. From the same design environment several other FPDAM plug-in can be started to design airspaces and routes, MVA, Aerodrome related surfaces, etc.



» Figure 1 SID 3D view

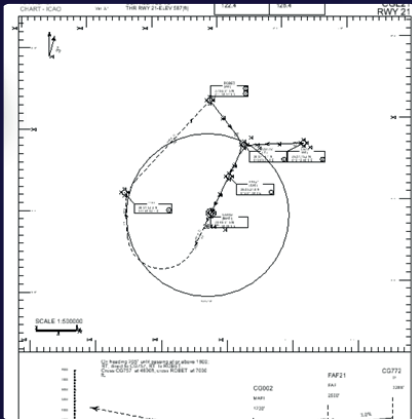


» Figure 2 SID 2D view

Key Features

- **Instrument Flight Procedure design environment:** FPDAM provides a 2D/3D graphic environment supporting conventional and RNAV/PBN, RNP AR, APV/LPV, GLS, Baro-VNAV IFP. Conventional and routes, all types of airspaces can be designed and assessed in the same design environment.
- **Comprehensive Protection Area generation:** supports all protection area types: VOR/TACAN, NDB, LOC, ILS, DME, PAR, SRE, RNAV/PBN, RNP AR, GBAS, SBAS, APV.
- **Terrain and obstacle assessment:** Allows importing terrain/DTM in any projection, datum or resolution; includes obstruction assessment for minima and penetration calculations.
- **Compliance validation:** provides online checks against ICAO rules, ARINC 424 coding, and identifies inconsistencies with explanations (info, warnings, errors).
- **Multi-Procedure analysis:** manage and verify multiple procedures simultaneously within a single project.
- **Reporting and documentation:** generate technical and regulatory documentation directly from the design environment.
- **Aeronautical data integration and repository:** load SSA, MSA, minima, NAVAIDs, obstacles and ATS data from the aeronautical database.

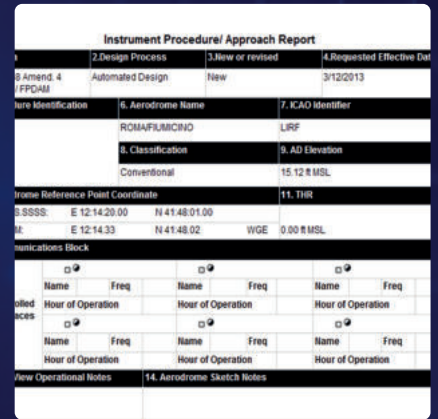
FPDAM Modules



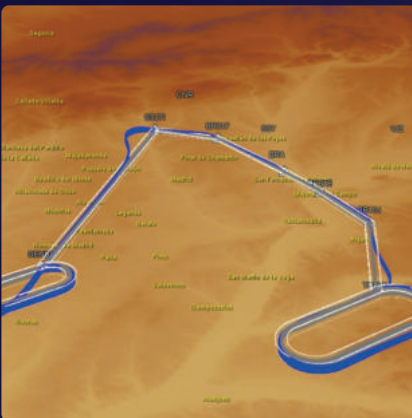
AeroChart
Automatic generation of draft
SID/STAR/Approach charts



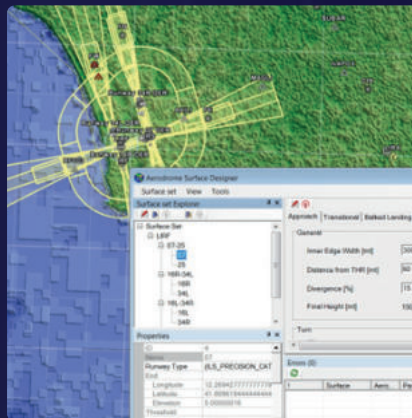
SSA Encoder
Consistency checks and central
AIM aeronautical database storage
of SSA (ARINC 424 export)



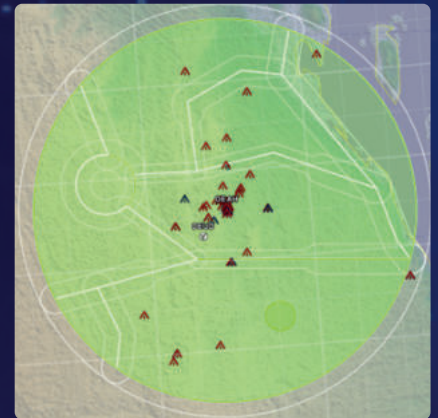
AeroReport
Configurable professional
technical report



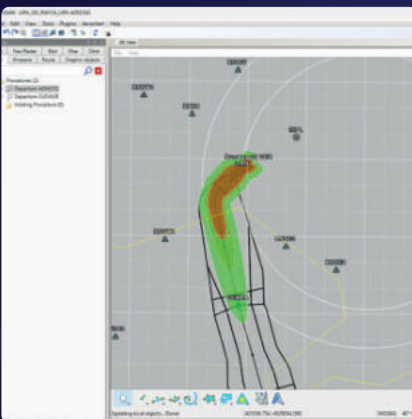
FPSAT
RNAV SSA procedure validation
and analysis (simulated vs
designed ICAO Annex 10)



ASD-evo
Design of Annex 4, Annex 14 and
10066 aerodrome surfaces



RMDM
MVA design, maintenance and
export to ATC CWP



Environmental impact
Noise and environmental impacts
assessment supporting mandatory
ICAO and EU requirements



Airspace Designer
Airspace structures and protection areas, supporting
horizontal and vertical separation analysis, buffer
calculations and terrain/obstacle assessments

Benefits

Designed to streamline airspace design workflows, the solution delivers reliable and compliant outputs through seamless data integration, automated analyses and consistently updated regulatory alignment. Its interoperability (through AIXM and ARINC import and export) and quality-driven framework empower organizations to reduce workload, enhance accuracy and maintain confidence in every operational decision:

- **Integration & ADQ Compliance:** ADQ compliance through complete traceability of all design data within the IDS AirNav AIM suite
- **Time Saving & Data Quality:** eliminated data conversion requirements and automated analyses
- **Safety & Regulatory Assurance:** Quality Assurance documentation aligned with ICAO 9906 Vol. III
- **Interoperability & Adaptability:** FPDAM is globally adopted, ensuring alignment with operational needs across design organizations (ANSPs, CAAs, airlines, airports)
- **Regular Updates:** Continuous updates, ensuring all calculations reflect the latest ICAO and regulatory amendments
- **Module Architecture:** users can activate only the modules they need within a smooth end-to-end workflow

Functionalities

- **ATS Data Management:** ATS data storage and management within IDS AirNav Aeronautical database (not mandatory), with translators for AIXM and custom formats.
- **Terrain & raster Data Management:** 3D terrain elevation, imagery, and raster support for all assessment and display needs.
- **Protection Area Builders Library:** automatic builders for all conventional and RNAV/PBN protection areas.
- **Obstruction analysis engine:** assessment of natural and man-made obstacles for minima, penetration and descent / climb gradients calculations.
- **ILS OAS, BASIC ILS and CRM analysis:** support for ILS-related advanced analyses.
- **Helicopter CAT H & PinS support:** capability for rotorcraft procedure design.
- **Import/export capabilities:** import/export of AIXM 4.5/5.1, ARINC 424, DWG/DXF/DGN, and flexible obstacle import (CSV or manual schema).