



Airspace Optimization Solutions

A complete solution from concept to cockpit.

As your advanced navigational capabilities become more sophisticated, your demand for airspace development expertise and professional terminal/enroute procedure design becomes increasingly important. Jeppesen customized airspace design and evaluation services can effectively help you meet these challenges. Our services range from the design and implementation of a single new Instrument Approach Procedure (IAP) to creating an entire Air Traffic Management (ATM) system.

Our experience includes ground-based navigational systems, Performance-Based Navigation (PBN), Required Navigation Performance (RNP) authorization, and RNP Authorization Required (RNP AR) development and implementation activities. Jeppesen is one of only two companies to be certified by the United States FAA to design, flight validate and maintain public RNP Special Aircrew and Aircraft Authorization Required (SAAAR) procedures in the United States.

The recognized and trusted leader in aeronautical navigation for over 80 years, Jeppesen procedure design experts have more than 200 years of combined experience. Our Airspace Solutions are certified by several worldwide regulatory agencies, and hold several other country specific procedure design certifications. We are also the only airspace design company with its own NOTAM management tool.

Our Airspace Solutions and services have consistently yielded benefits for customers around the world.

- ✔ Coordination and compliance with regulatory authorities
- ✔ Airspace capacity improvements
- ✔ Reduced air carrier fuel usage and decreased emissions
- ✔ Avoidance of noise-sensitive areas
- ✔ Reduced diversions
- ✔ Lowered instrument approach weather minima
- ✔ Identification of affordable ATM solutions through feasibility studies

- ✔ Increased operational efficiencies and competitive advantage through customized flight procedures
- ✔ Accessibility into areas of dense terrain or constrained airspace

Our full range of capabilities includes:

- ✔ Turnkey product ready for flight, beginning with stakeholder involvement and coupled with our core competencies in coding and charting
- ✔ Working with partners to optimize existing procedures and modernize a country's airspace
- ✔ Terminal and enroute airway design to support NDB, VOR/DME, TACAN, PBN and radar installations

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- ✔ All forms of precision approaches, including Category II and III ILS
- ✔ Annual procedure reviews as recommended by PANS-OPS
- ✔ Start-to-finish development support services, including survey management, feasibility studies, airspace designation, coordination with regulatory organizations and ongoing criteria/obstruction evaluation subscription
- ✔ RNP procedures to address specialized routing or highly terrain-challenged locations
- ✔ Area Navigation (RNAV) routes based on satellite navigation (GPS/GNSS) or ground based navigation aids (NAVAIDS)
- ✔ Instrument approach and departure procedures, Standard Instrument Departures (SIDs), Standard Terminal Arrival Routes (STARs), noise abatement strategies, engine out procedures, enroute airways, charted visual approach procedures and ICAO compliant and tailored charting as required
- ✔ Application of the latest navigation concepts and criteria to deliver increased operational efficiency, safety and capacity
- ✔ Consulting and analysis services to help you formulate and achieve your goals for a customized airspace master plan
- ✔ Full line of radar-based products, including Minimum Vectoring Altitude Charts (MVAC) and surveillance approaches
- ✔ Blended procedures to aid in accessibility or efficiency when there are no other procedure options
- ✔ ARINC 424 coding

Our experts have a proven track record, with successful procedure and airspace design projects implemented in more than 30 countries. Our team is fully trained and up-to-date on FAA (TERPS) and ICAO (PANS-OPS) standards and processes relating to all aspects of instrument procedure design, including enroute, feeder routes, special use airspace and terminal procedures. Having fixed and rotary-wing flying experience, as well as air traffic controller experience in both civil and military organizations, our consultants will find the most efficient way to help you save time and optimize fuel by using the latest technology, design criteria and ATM advancements.

Learn more about what we offer.

For more information, please email sales.gma@jeppesen.com