

# JTA: Changing the World by Improving Its Airspace

**JTA provides a full range of technical support for aviation systems planning and design, engineering, and business management to governments, air traffic control providers, and airlines worldwide.**

The breadth and depth of JTA's work ranges from the development of national air navigation system operations, technical and business strategies, to developing overall national modernization plans. Our work is conducted within the constraints of operational realities as well as architectural concepts, including the ICAO Future Air Navigation System, regional Communication, Navigation, Surveillance/ Air Traffic Management plans, and national aviation system designs. From this work, JTA developed a simple but unique approach that is characterized by three steps.

**Step 1 – Focus on the Customer's Needs:** From a project's inception, to its execution and conclusion, JTA ensures that each Customer's requirements are always met. JTA dedicates a program manager to work closely with the Customer and to represent the Customer's objectives throughout the entire project lifecycle.

**Step 2 – Assemble a Team of Industry Professionals to Complete the Project:** JTA assigns a core group of operations and engineering specialists to support the program manager and the Customer. From its cadre of recognized experts, JTA organizes a team knowledgeable in the fields of airport and ATC operations, systems engineering, market analysis, finances and economics to accomplish the most sophisticated aviation systems planning, design or engineering projects.



All flights operating within the Bahrain airspace plotted by JTA ASET®

The underlying philosophy behind JTA's consultative support for the modernization of airspace systems is to assess the existing infrastructures and to build upon them, rather than replace them.

**Step 3 – Support the Team with a Suite of State-of-the-Art System Engineering and Program Management Processes, Procedures and Tools:** JTA has created a unique toolset by taking the best of commercially available products and combining them with internally developed enhancements specific to aviation. Collectively, these Aviation System Engineering Tools, known as ASET®, provide the technical and analytical support necessary to ensure the success of every project.

## Pursuing Excellence through Innovation and Hard Work

**Jerry Thompson & Associates, Inc.**

**AIRPORT and AVIATION SYSTEMS Planners, Designers, Engineers**



# Principal Domains of Expertise

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JTA is experienced in all aspects of the lifecycle of aviation systems. This includes requirements analysis and definition; trade studies and financial analysis; design concepts, system description and functional design; and system design development and specifications.

## Airspace Analysis and Engineering

JTA conducts airspace analysis to ensure the optimization of the total system design to support current and future demands. The staffing, procedures and automation components, as well as their interrelationships, are identified to support the operational constraints and requirements.

## ATC Operations

JTA has considerable subject-matter expertise in air traffic control (ATC) operations. Nearly two-thirds of our total staff are domain-skilled air traffic controllers and aviation technicians. JTA has the resources to reach every Customer's goals.

## Airport Planning

JTA supports numerous elements within the spectrum of airport planning. Our extensive experience in airport and aviation cost-benefit analysis, airport finance, fees and charges, demand forecasting, noise analysis, and airport capacity and aircraft delay appraisals ensures project success.

## Aviation Economics

JTA offers world-class services in all aspects of aviation economics. JTA works with customers to establish the cost- and revenue-basis for infrastructure improvements such as airspace modernization. JTA's analysis considers demand forecasts, user fee modeling and technological transition.

## Communications

JTA works with customers in the planning, development, and implementation of aviation ground-based and satellite-based communications systems. Our demonstrated ability in current and future technology is the result of years of staff and field experience.

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10 Post Office Road  
Forest Glen, Maryland 20910-1103  
USA

Phone +1 301 565 8000  
Facsimile +1 301 585 8680  
[www.jta-atc.com](http://www.jta-atc.com)

## Navigation and Landing Systems

JTA helps clients in the US and internationally in the overall management of navigation and landing systems. JTA is knowledgeable in today's technology and the evolving global navigation satellite system technologies. From the earliest planning stages, to system deployment and finally to operational implementation and transition, JTA supports the total lifecycle.

## Radar and Surveillance

JTA provides expertise to support existing radar and non-radar surveillance as well as emerging tools such as automatic dependent surveillance. JTA can help resolve specific problems like radar siting, as well as complex problems like designing a comprehensive surveillance system architecture.

## Automation

JTA provides innovative solutions to automation system problems. One way is by leveraging our software capability into rapid prototypes that are developed into effective, workable solutions. JTA has participated in air traffic control automation programs around the world.

## Transition & Implementation

JTA develops and refines transition approaches and strategies at both the airspace system and the equipment level. Our set of tools and our subject-matter experts provide solutions to all transition and activation requirements.

