

TOTAL AIRSPACE AND AIRPORT MODELER

Simulation for Planning and Analysis

Jeppesen Total Airspace and Airport Modeler (TAAM®) is a fast-time gate-to-gate simulation tool that accurately predicts and analyzes the impact of present and future airspace and airport operations, while maintaining safety and efficiency.

TAAM presents realistic 4D (3D plus time) models of airspace and airports to facilitate decision support, planning and analysis. TAAM simulations are processed in fast-time enabling you to obtain results quickly and evaluate a wider range of scenarios.

TAAM FEATURES

- :: Unmatched fast-time and accurate simulation capabilities
- :: Configurable to any airport or airspace
- :: Unlimited 'what-if' scenario capabilities
- :: 4D full airspace flight profile calculations and detailed ground and airside model
- :: Flexible rule base to accommodate different modeling requirements
- :: Randomization of model parameters for increased realism
- :: Electronic data input for rapid simulation model set-up
- :: Realistic 3D multicolor models of airspace and airports to assist analysis and presentations
- :: Direct output to spreadsheet and database tools for detailed analysis
- :: Assess the impact of changes in controller workload due to traffic growth, new airspace designs and procedures
- :: Assess oceanic separation procedures
- :: Improve cooperation between civil and military air services
- :: Manage the impact of adverse weather conditions
- :: Study new CNS/ATM technologies

BENEFITS FOR CIVIL AVIATION AUTHORITIES (CAAS) AND AIR NAVIGATION SERVICE PROVIDERS (ANSPS)

- :: Analyze the impacts of global growth in air traffic
- :: Increase traffic flow and airspace utilization while maintaining safety
- :: Analyze capacity for national route systems with current and future traffic levels
- :: Redesign, resectorization and reclassification of airspace
- :: Measure benefits of reduced vertical separation minima
- :: Evaluate the implications of introducing new enroute and terminal procedures
- :: Reduce congestion and delays while maintaining safety
- :: Capitalize on more efficient use of existing airport infrastructure and resources
- :: Increased capacity means greater revenues from landing fees
- :: Plan for the introduction of new aircraft
- :: Evaluate financial implications of future infrastructure investments including new terminals, additional gates, taxiways or runways
- :: Improve irregular operations
- :: Cost-effectively plan noise abatement, de-icing and other operations
- :: Measure the impact of disruptions, such as proposed runway construction, on your schedule and operations
- :: Assess the effect of changes in sequencing strategies and separation standards

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BENEFITS FOR AIRLINES

- ∴ Cost-effectively plan operations, fleet changes, aircraft substitutions, de-icing and other procedures
- ∴ Enhance competitiveness and profitability through reduced fuel use, shorter delays and efficient block times
- ∴ Optimize schedule design from early stages to ongoing adjustments
- ∴ Manage the introduction of regional jets and other fleet mix changes
- ∴ Evaluate past performance and train operations staff to handle disruptions more efficiently
- ∴ Analyze the initiatives of the national or local air navigation service providers and determine potential impacts on your operation
- ∴ Propose initiatives to air navigation service providers to reduce delays and increase efficiency

