

TPAC Operations







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TPAC™ Operations is a functionally rich aircraft movement control system.

This realtime system affords the user a highly visual multi screen Gantt environment and advanced tools to enable a small number of operations controllers to support large airlines with diverse international and domestic marketplaces.

TPAC™ Operations provides the means to manage all aspects of aircraft operations from the time the schedule is published to the time the flights have completed.

TPAC™ Operations handles the workflows associated with airline operations including:

- Real time aircraft movement updates
- Real time handling of operational changes
- Schedule recovery optimization tools
- Reporting and KPIs for the end of operations monitoring

The main graphical display is a real-time, automatically updating Gantt chart of the current aircraft operations. The Gantt quickly highlights current operational events and problems and allows the operator to easily see where attention is required.

Key Functions

- Tail Assignment
- Models and Publication
- System Monitoring
- Disruption Handling and Decision Support
- Consequential Delays
- Connection Management
- Passengers
- Crew
- Route Bookings
- Freight
- Frequent Flyers



Fig.1 Main Fleet Gantt Display.



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Interfacing

- Standard Flight Schedule
- Standard Flight Event Messaging
- Crew Pairings
- Passenger Loads
- Passenger Connections
- Maintenance Hours and Cycles
- Slot Management
- Weather
- General Telex Messaging
- Reference Data
- General Telex Messaging
- Standard Flight Event Messaging
- Schedule Change Model To External Systems For What-If Analysis

System Reliability and Scalability

- The client/server architecture allows for automatic system load balancing and automatic disaster failover.
- The system is designed for 100% uptime with hot standby a standard deployment configuration
- The system is proven in airlines of 300+ aircraft and scalable to 500+ aircraft



Fig.2 Disruption Cost Analysis by Solution.