FLIGHT OPERATIONS SOLUTIONS

Flight Explorer

A powerful, reliable and real-time decision support tool

Flight Explorer is an integrated flight following and management decision support tool that provides members of the aviation community the system features they require to improve operational efficiency and the performance of their business.

Flight Explorer goes beyond "flight following," incorporating multiple data feeds, dynamic weather overlays, situational alerts, predictive weather and air traffic tools to make Flight Explorer an essential flight operations management tool.

Whether you run a major, regional, or commuter airline; a global air express or air cargo company; a major or regional airport; an air charter service; a fixed-based operation (FBO); or an airline related service; Flight Explorer helps your business make informed decisions on how best to manage your fleets, crew and overall flight operations.

Key benefits

- Improve overall aircraft, weather and airport situational awareness through a single graphical display
- Dispatch, monitor and reroute flights to achieve optimal fuel economy, on-time performance, passenger safety and comfort
- Improve operational efficiency with better planning to maximize personnel and facility resources
- Utilize real-time and predictive tools and data to anticipate airport delays and make necessary operational adjustments
- Visually depict the planned route of flight in relation to predicted weather and air traffic and make necessary route adjustments

- Capture valuable flight and airport information for ground logistics management
- Monitor flights, airports and airspace with event-based alerts
- Utilize real-time information to provide superior customer service
- Record the data for future playback and analysis

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Flight Explorer

Key features

Proactive Route Analytics – 4D Monitoring and Alerting of enroute hazardous flight conditions that are forecast to impact the route of flight, from pre-departure through arrival.

Global Data Feeds – An extensive and expanding source of global data provides real-time flight tracking information around the world via the FAA's ASDI feed for IFR traffic, international radar feeds, ACARS, and ADSB tracking.

Extensive Weather Options – Display and animate North American NEXRAD weather, worldwide IR satellite coverage, international graphical METARs, and add other dynamic weather including AIRMETS, SIGMETS, convective SIGMETS, and Convective Forecast (TCF), EDR Turbulence and realtime lightning. Integration with multiple weather vendors for added products and the ability to provide custom weather data.

Third-Party Data Integration – Seamlessly integrate third-party data into Flight Explorer, including position tracking data for trucks, ships, cargo or people, user-specific weather, map overlays and other customer specific information.

Flight Planning System Integration – Route-planning information can be shared between Flight Explorer and the flight planning tools already in use.

Airport Information – View METARs and TAFs, NOTAMS, PIREPs, FAA airport status sunrise and sunset information, and access Universal Weather's Trip Planner airport database.

Flight Alert™ System – Extensive event system generates alerts via voice, e-mail, on-screen event list, PC audio or log file for aircraft events such as arrivals, departures, change in ETA, flight plan or altitude; proximity to destination weather thresholds, Diversions and FAA delays.

Graphical Overlays – Graphics, including Aircraft, Weather, Airports (METAR, RVR, Diversions), Cities, Highways, Terrain, NAVAIDs, Fixes, Centers, Sectors, Airways, SUAs, Radar sites, Lat/long, TRACONs and Time Zones can be overlaid on the base map.

Map and Background Image Overlays – Overlay any raster-based, geo-referenced background images such as FAA charts, aviation maps and satellite imagery. Satellite and Street level maps are also available.

Event Log and Reporting System – A real-time log of all significant events occurring during a flight or at an airport, recorded and exported to a database for analysis. Customized events can also be defined.

Graphical TFRs – Overlay temporary Flight Restrictions to alert users to the latest changes in restricted airspace.

Last Known Location' Tracking – See the last known arrival information for any flight tracked by Flight Explorer. Always know where and when your aircraft landed, even if the aircraft has been on the ground for 24 hours!

My Fleet™ Status List – View a real-time status of your fleet, selected from the time the flight plan is filed to arrival at the destination airport and beyond. FAA Delays - Provides the current status of all FAA issued airport delays (ground delay, ground stop, airport closure, etc).

Drawing Tools – Draw custom objects on the Flight Explorer screen. Enable floor and ceiling altitudes to generate alerts when aircraft enter or leave the area. Set up these objects with a direction and speed to "box" concerns such as weather fronts or turbulence.

Record/Playback Function – Record all received data (Flight Plans, Position Reports, Weather, etc) for playback to support training, internal analysis of an event or creation of demand\resource deployment plans.

ESRI Shape File Support – Import industry standard vector image files (or create your own) to display geographical or company specific points of interests such as hospitals, volcanoes, regions and more.

World Class Technical Support – 24/7 telephone and online support by responsive and knowledgeable professionals.

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