

# **TOPS FLIGHT WATCH**

24X7 REAL TIME INFO

Flight Safety / Productivity / Efficiency



## **Early Insight on Real-Time Flight Progress**

Wipro TOPS Flight Watch is a proactive flight-tracking tool that provides the airline's operations control team with the ability to track real-time progress of its flights against the plan. This web-based application enables early insight into the changing flying environment and helps the operations team to visualize the problem in hand, aggregates information for decision-making and instantly establish communication with the aircraft.

#### **Key Benefits**

- » Improved Situational Awareness which includes information of your flights, airports, weather condition, NOTAMs and other information consolidated in a single graphical view
- » Better Flight Safety and Operational Efficiency with real-time info availability, proactive problem detection and decision support mechanism for the Flight Watch and OCC function
- » Improved Information Accessibility and Availability using a web-based application
- » Adapts to Industry Recommendations and adheres to compliance requirements
- » Proven Solution implemented and operational at one of the world's largest airlines



### TOPS Flight Watch

The system is designed to integrate seamlessly with the airline's existing IT systems and other proprietary data sources.

- » Global Position Message Sources
- » Airline Operations System
- » Messaging Applications
- » Flight Planning System
- » Weather Info and Overlays
- » NOTAM



#### **Key Features**

Multiple Data Feeds: The application features the "TOPS Connect" module which aggregates real-time position information from multiple sources, such as ADS-B, ACARS position messages, INMARSAT, ADS-C and other upcoming sources. The application also features an in-built logic to eliminate erroneous "out of bound" position reports, ensuring data quality is achieved from the usage of multiple feeds.

**Integrated Flight Plan and Position Reporting:** TOPS automatically selects waypoints from the operational flight plan based on the 4D/15 tracking requirement and keeps track of the compulsory position reports from the aircraft based on the configured business rule. In the event of non-receipt of position reports from the aircraft, the system automatically requests the aircraft's flight management system for position reports and alerts the flight watch officer for appropriate action and analysis of the situation.

Smart Alerts: The TOPS alerting engine continuously checks for connectivity to the aircraft and monitors flight's progress against its plan and monitors for variances pertaining to position, altitude, fuel, time, weather conditions and more. A prolonged loss of aircraft connectivity or any variances against the flight plan based on configured threshold parameters is highlighted by the system for user attention.

**Track Functionality:** Should there be an event which requires close monitoring of a flight for operational or safety reasons, the "Track" functionality can be invoked. It initiates automated position requests at a one-minute frequency requesting for 4D/15 position reports from the aircraft's flight management system. In addition, 4D position requests can also be sent to the aircraft on an ad-hoc basis by using the application.

**Diversion Assistance:** In the event of a flight diversion, the application assists in identifying suitable airports based on the aircraft's current position and other vital parameters. The system plots a circular grid based on user input for time or distance, and identifies the suitable airports in proximity of the aircraft.

Communicate with the Flight Deck: Send and receive messages to one or more flights through the application. All flights in a particular FIR can be filtered out easily and an ACARS message can be sent out to them at one go. Being in touch with the pilot means you are able to support them from the ground better – with more information than ever before.

Overlays: Multiple overlays depicting information such as FIR, tropical cyclone, winds and other critical weather information can be overlaid on the map to provide a holistic visual of the flight's actual flying conditions for situational awareness and decision-making.

**Monitor Congestion around Airports:** The system displays worldwide airline position information based on ADS-B data, which helps Operations to monitor for any holding patterns or congestion around airports.

Rich, Graphical UI: TOPS features a new-gen design and an easy to use interface which runs on a web browser. The application helps draw attention of the control center to the right flights by providing a list of flights, with those having the most alerts placed at the top. Flight Watch officers can then toggle to map-view and carry out a detailed situation analysis.

#### **Snap Shots**











For more information on how TOPS Flight Watch can help your airline remain safe and efficient, visit http://www.wipro.com/industries/transportation/airlines/flight-watch/ or email 'contact.airlines@wipro.com' for product demonstration.

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