

Maverick WXAlert™ *from* The Weather Company aviation solutions

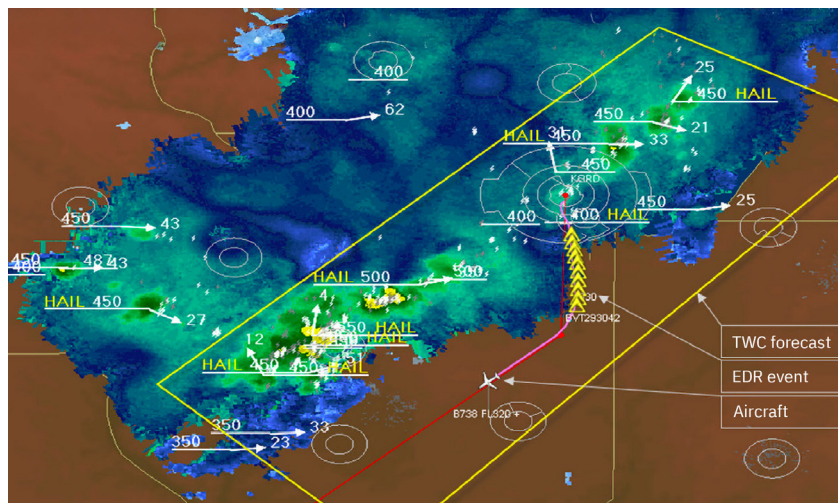
Each year, enroute weather challenges like turbulence, crosswinds, and scenarios leading to costly operational disruptions (IROPs) impact the aviation industry. As a result, airlines face hundreds of millions of dollars in injury claims, lost revenue, aircraft repairs, sensitive cargo damage, and lost revenue as a result.

Key challenges

- Airlines rely on subjective, verbal pilot reports (PIREPs) of turbulence, often delayed and imprecise in location.
- Government-issued turbulence SIGMETs and Significant Weather guidance are not airframe or flight-segment specific, leading to uncertainty about the location, extent, and severity of enroute impacts.
- Flight crews, controllers, and dispatchers do not always access the same information, hampering decision making.
- Uncertainty leads to extra contingency fuel and suboptimal altitude and route planning, all of which drive profit erosion from the planned flight.

Maverick WXAlert™ helps you:

- Improve safety
- Boost efficiency
- Reduce maintenance inspections
- Increase passenger comfort
- Enhance operational analysis
- Mitigate ballooning IROPs costs
- Strengthen tactical decision-making for all enroute hazards



Alert messages are generated when a flight is projected to intersect an enroute hazard

Maverick WXAlert™

Maverick WX Alert provides a workflow integrated, end-to-end solution that improves certainty and reduces the impact of enroute weather challenges **when cockpit connectivity is limited**.

At the core of Maverick WXAlert is a unique synthesis of real-time EDR data, high-resolution weather modeling, and the expertise of aviation meteorologists. Fusing these inputs with proven ACARS technology, the system delivers timely and precise alerts for critical hazards directly to the cockpit.

Maverick WXAlert is a proprietary alerting technology that relies on The Weather Company's EWINS-compliant forecaster issued SIGMETs/FPGs, traditional PIREPs, simulated turbulence modeling, and real-time EDR data and Turbulence Auto PIREP System (TAPS™) events.

The Weather Company

The Weather Company's meteorologists are EWINS-trained with an average of over 10 years of experience in aviation forecasting for commercial operations. They issue SIGMETs and Flight Plan Guidance (FPG) advisories globally which update every three hours, or as needed, 24/7.

Besides having access to all global weather modeling, these meteorologists can access the proprietary GRAF model, a high resolution global model. GRAF rapidly updates — unlike traditional models — with much better resolution for capturing areas where turbulence is likely to occur.



Key features of Maverick WXAlert™

Objective turbulence data

Timely, precise reporting of turbulence location and severity

- Leverages real-time, objective EDR and TAPS data
- Provides precise reporting of turbulence location and severity from a vast network of participating aircraft, replacing subjective and imprecise verbal pilot reports
- Reports simple severity categories as well as airframe-specific EDR parameters

Beyond turbulence

Expanded hazard alerting

- Enable a wider range of weather alerts, powered by the Maverick platform's condition manager
- Gain enhanced situational awareness with alerts for crosswind limits, proprietary SIGMETs, and PIREPs
- Receive critical IROPS intelligence, including weather impacting flight plans
- Build confidence, collaboration, and sharpen decision making in all flight phases

Turbulence advisory

Fill critical information gaps and operational blind spots

- Issues a moderate or higher turbulence PIREP, EDR, or TAPS report prior to SIGMET or FPG amendments
- Indicates the severity and 3D airspace impacted clearly
- Provides timely alerting to mitigate impacts of emerging significant hazards

Enroute Hazard SIGMETs and Flight Plan Guidance (FPGs)

Precise, incisive, and actionable view of turbulence impacts

- Tailored for transport class aircraft to optimize altitude and route plans
- Created using extensive global observations, publicly-available and proprietary PIREPs, as well as The Weather Company's own weather modeling
- Monitored, redefined, and verified continuously by expert aviation meteorologists 24/7 x 365

Decision support integration

Enables stakeholders to operate on the same page

- Flight-following solutions: Real-time alerting and optimal planning for turbulence, crosswinds, and IROP scenarios
- Fusion Replay: On-demand post-event analysis
- Pilotbrief: Preflight and in-flight crew awareness
- Aviation APIs: Enterprise data services curated and formatted to specific airline needs

Service-level meets flight-critical requirements

- Fully managed and supported
- Redundant, active data center architecture
- Premium Service Level available
- Scarce IT resources focused on airline operational optimization

Explore The Weather Company aviation solutions →

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