




# Make Smart, Informed Flight Planning Decisions with Intelligent Weather Insights

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A portion of an air traffic control tower is visible on the left side of the image. It features a blue upper section with a circular observation deck and a grey lower section.

**Effective monitoring of the weather is one of the most important elements in successful aviation operations.** Having the ability to proactively plan flights in advance through accurate forecasting, as well as make adjustments to weather in real-time, can help ensure flights reach their destination safely and on time.

## **Weather influences the timeliness and efficiency of flights, as unexpected conditions like lightning, turbulence, and precipitation can delay arrival times and result in unnecessary fuel expenditures.**

Above all, severe weather can jeopardize the safe transport of passengers, crew and cargo. New tools, like Flight Route Alerting from DTN, allow companies to effectively plan routes much further in advance and provide real-time weather updates both prior to takeoff and directly to pilots while in route.

One of the biggest challenges in managing the weather is being able to quickly and reliably determine if it will impact a specific flight. If limited weather information is available when flights are planned days or weeks in advance, it limits the ability to make a truly informed decision and can result in delays of service.

### **Improved flight planning, flight following & weather decision support**

New technology solutions, such as DTN's Flight Route Alerting, can help commercial airlines, corporate aviation, and helicopter operations mitigate risk and improve the timeliness, efficiency, and safety of operations. Companies can use these insights to better plan flight routes in advance, help pilots more accurately follow the route, and keep everyone informed of weather conditions.

### **Plan flight routes earlier around the weather**

DTN's Flight Route Alerting provides accurate weather forecasts 15 days out and hourly forecasts for the immediate 72 hours. With this information, flight planners can make informed and cost-effective route decisions. This kind of advanced technology and extended planning window allows companies to not only plan long flights more safely and reliably, it also allows for flights to be planned earlier.

### **Deliver real-time weather & route information to pilots**

When a plane is in the air, DTN's weather support solution can provide continuous monitoring for its current status—as well as for up to 25 locations throughout the route (origin, destination, alternates, and more). Real-time, automated, and precise alerts based on the user's specific weather tolerances can be delivered right to the cockpit, keeping pilots in control and passengers and cargo safe. Monitoring of flights continues until the flight is completed or canceled by staff.

Flight Route Alerting breaks down each flight route into several segments with both vertical and horizontal tolerances. This creates a virtual flight corridor for evaluating the user's defined weather criteria, allowing DTN to limit alerts to those directly in the aircraft's path.

### **Receive instant feedback on important weather-related decisions**

DTN's modern weather management tool allows flight planners to submit potential flight routes, specific weather requirements for each route, as well as the anticipated or potential airports. From that information, DTN provides instant feedback on weather events that exceed specified safety parameters for all submitted routes. This allows planners to select the route that offers the best fuel efficiency and the least chance of weather-related disruptions.



Prepare for, and react to, weather easier than ever before.

## 15 days and 72 hours

DTN provides accurate weather forecasts 15 days out and hourly weather information for the immediate 72 hours.

## 70 percent

Turbulence accounts for more than 70 percent of all weather-related incidents.

## 25 locations

DTN's Flight Route Alerting system monitors and sends alerts pertaining to 25 locations associated with each flight route.

## Real-time alerts

Arm your pilots with real-time weather information and alerts right in the cockpit, so they can make quick, informed decisions to keep passengers safe and flights on time.

Save on fuel costs, reduce weather delays, and make sure passengers, crew, and cargo arrive safely and on time to their destination with smart weather solutions from DTN.