



## FLIGHT PROFILE OPTIMIZATION

# THE MOST ACCURATE DATA, FOR THE MOST EFFICIENT ROUTE

## The data decision-makers need to choose the safest, most efficient flight path

Airline pilots, air traffic managers and airline operators know the importance of staying flexible when it comes to finding the safest, most efficient route for their aircraft. Weather conditions or air traffic patterns can shift at any time over the course of a flight. Airport congestion in one location can affect ETAs in another. Staying flexible means staying open to route alternatives that can help keep passengers comfortable, flights on time and fuel costs down.



To choose the best route as conditions evolve, decision-makers in the air and on the ground need access to the same, reliably-sourced data so they can – quickly and easily – come to a consensus on flight path alternatives. That's where we can help.

## KEY FEATURES & BENEFITS

- Presents optimal flight path alternatives, while indexing projected costs
- Recommends lateral and vertical route changes throughout entire flight
- Data delivered in real time eases collaboration for decision-makers
- Synthesizes data from numerous aircraft and ground-based sources
- Modular design makes it easy to integrate with other onboard data systems
- Lower “tangible” fuel costs mean lower overall operating costs
- Less fuel burn leads to reduced environmental impact
- Highly effective for flights of two hours or more



## A COLLABORATIVE APPROACH

The Collins Aerospace Flight Profile Optimization (FPO) tool, part of our FlightHub™ Electronic Flight Folder, makes the decision to re-route aircraft more convenient and collaborative. An advanced decision-making tool, FPO synthesizes data from multiple, ground-based sources and sends it to decision-makers as environmental conditions or logistics change.

With its ground-based data feed and communications architecture, plus cyber-secure IP connectivity, FPO recommends optimal flight routes on both the lateral and vertical axis – a feature few other flight optimization solutions offer. It also indexes projected costs for each route and calculates tangible fuel consumption, giving airlines additional information as they seek ways to reduce environmental impact.

The FPO solution, as part of our FlightHub portfolio and Connected Ecosystem, widens the circle of informed, collaborative decision-making and helps pilots and flight operators choose the most efficient route with confidence.

## WHAT SETS US APART

### Ground-based architecture

- Networked, ground-based data enhances collaboration among pilots, airlines and air traffic management
- Faster airline ROI, no costly or prolonged AC installations

### Connected Ecosystem integration

- FPO comes fully integrated with the Collins Aerospace FlightHub solution
- Seamless operation across the Collins Connected Ecosystem – including Datalink, AIDs
- Full end-to-end service available or it can function independently
- Get the full benefit of Collins' systems integration experience

### IP Connectivity

- Allows for full flight deck and dispatch collaboration on flight path alternatives
- Real-time data feeds into the EFB from ground sources



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