Enhancing Operational Performance with Multi-orbit Inflight Connectivity

A Better Future Through Inflight Connectivity

Pre-flight
- Gate-to-gate operational connectivity for pre-flight planning on electronic flight bags (EFBs), logbooks, and digital manuals
- Maintenance personnel can connect their tools seamlessly

In-flight
- Enable real-time airplane health monitoring and predictive maintenance by wirelessly offloading data
- Real-time weather provides flight route optimization to save fuel, lower emissions, and improve situational awareness

Post-flight
- Offload aircraft big data for Flight Operations Quality Analysis without manual intervention

Create a Competitive Edge and Minimize Delays with Real-time Data for Your Crews

Flight Operations: Enhance Your EFB Applications

- CO_2 — Reduce CO2 emissions with optimized routing
- Mitigate lightning risks with live weather updates
- Reduce injuries due to turbulence with smoother flights
- Lower fuel consumption with real-time wind data

Weather Related Events are Costly for Airlines

Lightning Strikes
- Average cost per inspection for a narrow body aircraft after a lightning strike is U.S. $19,000
- Around 2/3 of lightning related damage is outside of allowable limits which drives extensive repairs

Turbulence
- Estimating savings of 900–1,300 minutes annually per aircraft and 8,000–12,000 gallons of fuel
- 2017 global cost of turbulence related injuries was U.S. $367 million, and could reach U.S. $1 billion by 2035

Ground Operations: Reduce Aircraft Turnaround Times with Real-time Data

- Increase awareness of in-flight concerns
- Proactively resolve maintenance issues
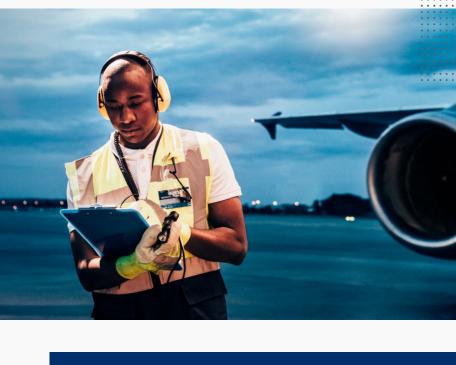- Accurately refill catering and other supplies

Gain Cost-effective Access to Operational Data in Near Real Time

Intelsat's secure IP network enables airlines to gain powerful insights and make better decisions.

- Aircraft performance testing
- Pilot performance testing
- Pilot score carding
- Predictive maintenance

Routing non-safety data over Intelsat's network
A/C Data — Intelsat Network — Cost per MB

Routing data over ACARS network
A/C Data — ACARS — Cost per MB

Bring Your Operations Online to Save Time and Money

In-cabin
Enable flight crews with tools to enhance the passenger journey

Generate Revenue

Flight Operations
Empower pilots with access to real-time data

Reduce Cost

Aircraft Operations
Minimize delays due to unexpected maintenance

Everything is possible with Intelsat's flexible and tailorable solutions.
Learn more at intelsat.com/non-stop