KEY BENEFITS

Operational
- Reliable, global two-way dispatcher-aircrew communications
- Consistent level of operational performance worldwide
- Improved resource and asset tracking
- Increased information and situational awareness
- Improved response times on operational and safety issues
- Reduced uncertainty in operational decision-making
- A responsive, collaborative client-vendor environment

Technical
- Low-cost, reliable, supportable technical architecture
- Expandable, flexible, and scalable architecture
- System architecture based on modern, state-of-the-art technology
- Continuous and collaborative systems approach
- Trusted systems integrator responsive to your needs and emerging requirements
- First-class vendor partners with proven track records

Financial
- Lower initial investment costs than traditional messaging alternatives
- Equipment lease-financing options are available
- Lower recurring costs during program operation
- Predictable and stable costs for financial planning
- Faster return on investment (ROI) than traditional approach

Aircraft Data and Messaging (ADAM)

The Flight Explorer suite of products now includes Aircraft Data and Messaging (ADAM) combined with satellite tracking solutions to extend our services from the Operational Control Center (OCC) to the aircraft. This unique, integrated, lower-cost alternative to traditional data and voice communications uses commercially available satellite systems such as Iridium to provide truly global coverage with a high level of reliability and operational flexibility.

ADAM is powered by Wingspeed’s XLLINK voice and data communications system and provides the following communications services:

**IN THE COCKPIT**
- Global satellite voice communication
- Two-way text messaging
- ACARS over Iridium
- Graphic and textual weather/NOTAMS
- Pre-Departure and Oceanic Clearances
- Digital ATIS
- Out, Off, On, In (OOOI) Events
- Engine Condition Monitoring

**IN THE CABIN**
- Global satellite voice communication
- Text email via the Web
- Sports, news, weather, and market updates
- Fax capability
- Wireless 802.11 capability

**ON THE GROUND**
- Two-way text messaging to your aircraft
- Flight Tracking
- OOOI messaging
- Global satellite voice communication
- Integrate existing forms and ground-based applications
- Aircraft security monitoring
- Complete integration of aircraft and message data with ground systems

Flight Explorer Professional’s easy-to-use interface allows the user to send/receive data messages between their desktop and the aircraft.
ADAM is powered by Wingspeed’s XLLink Iridium-Based Voice and Data Communications System

AVIONICS EQUIPMENT
• Commercial Grade Avionics, DO160D Certified Aircraft Communication Unit (ACU)
• Multi-Mode Capability: Iridium Satellite Network and ARINC ACARS Network
• Aviation Standard ARINC 600 Connector
• PMA Certified Manufacturing Process

SOFTWARE
• DO178 Level D Certified Aircraft Communication Unit (ACU) Software
• Complies with ARINC 620/623 Specifications for ACARS Messaging and Protocols
• Customizable Pilot Display Interface
• Secure and Flexible Message and Data Routing

SYSTEMS CONFIGURATION
The Flight Explorer Team Delivers a Turn-Key Solution:
• Assembles and Tests each Complete Aircraft System Prior to Shipping
• Installs the XLLink System Software on EFBs
• Conducts a Bench Test and Burn-In for each Individual Aircraft Configuration
• Initializes the System Software to the Individual Aircraft Tail Number
• Creates Disk Images of CPU Hard Disk for each Individual Aircraft
• Stores the Disk Images on Secure Flight Explorer Server for Customer Off-Site Disaster Recovery

A COMPLETE END-TO-END SOLUTION
→ ADAM starts with the EFB communications software on the flight deck.
→ ADAM ends with the correctly formatted messages and data delivered over a secure connection to your operations center for systems integration.
→ ADAM is fully integrated with the Flight Explorer Professional® Edition Aircraft Situational Display (ASD) software.
→ One monthly bill from Flight Explorer
→ One point of contact for 24x7 customer service

The Iridium Satellite Network
A key element of the ADAM architecture is the use of Iridium SatCom as the communications backbone. The Iridium SatCom technology provides carriers with a low cost alternative to traditional A-G/G-A communications that relies heavily on service provider installed radio towers. Iridium SatCom service is now widely used, extremely reliable and is the rapidly expanding basis for global corporate communications.