



**Real-Time Operations**  
Airplane Health  
Management

BOEING **EDGE**  
Information Services



## Airplane Health Management

# Improved Operational Decision Making

Your operations require every advantage possible to increase efficiency. The Boeing Edge is all about bringing your airplanes, operations and business those advantages and making your teams successful. Airplane Health Management is part of the Boeing Edge: Information Services set of offerings focused on turning information into insight, increasing your team's efficiency and your business profitability.

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### Harnessing the Power of Information

Airplane Health Management (AHM) is focused on improving your operational performance by turning available airplane data into useful, actionable information. With the AHM system of monitoring, collecting and analyzing available airplane data, your engineering and maintenance staff will be able to make timely, economical and repeatable maintenance decisions that will help improve your fleet operation.

AHM will enable you to improve your operational performance and reduce delays, cancellations, air turnbacks and diversions.

AHM is made possible by Boeing's detailed design knowledge and in-service experience as well as our investment in the systems, applications and infrastructure required to make use of this information.

## Improved Operational Decision Making

### How AHM Works

- AHM collects data in real time from the flying fleet and makes it available to ground operations.
- Alerts and notifications are delivered to your personnel through the Internet, fax, mobile devices, e-mail and pager services.
- Teams across your operations access and process information with Boeing-hosted tools on the MyBoeingFleet.com web portal.
- Your teams receive customizable information packages based on their information needs, selected prioritization and urgency.
- You make fix-or-fly and maintenance decisions with better information and in a fraction of the time with remote monitoring, collection of data and analysis of information.

Automated decision support increases efficiencies and performance across your enterprise.

Choose the decision support you need. AHM has three types of decision support available:



**Real-Time Fault Management.** With the airplane still en route, in-flight faults are communicated to the ground and diagnosed, allowing you to make real-time operational decisions regarding maintenance and deploy the necessary people, parts, and equipment to mitigate the issue. Real-time fault diagnosis is enabled using manual and / or automatic uplinks to airplane.



**Custom Alerting and Analysis.** Customer-specified monitoring and alerting of any data transmitted from the airplane to address developing airplane system issues. AHM automatically monitors, collects, and transmits service levels using ACARS through the installed Aircraft Condition Monitoring System (ACMS).



**Performance Monitoring.** To support your airplane fuel efficiency initiatives and optimize your flight planning, AHM analyzes and trends airplane cruise performance data. This includes prioritized information regarding fuel efficiency, emission levels, and other performance factors.

All three of these AHM decision support tools can interface with engine OEM health monitoring services to provide Engine Condition Monitoring Alerts by linking the web-based systems and enabling your personnel to see engine-OEM-generated alerts alongside AHM-generated information.



## Airplane Health Management

### Improved Operational Decision Making

Choose your priorities and receive advance notice of issues:

**Prioritization.** You determine your informational needs and priorities based on Minimum Equipment List (MEL) relief, economic impact and other performance factors to determine your best course of action.

**Prognostics.** You are able to forecast and fix problems before failure. Advance notice of problems helps turn unscheduled maintenance into scheduled maintenance.

- Increases operational effectiveness
- Empowers your personnel
- Eliminates many unnecessary failures
- Reduces unscheduled maintenance

AHM decision support tools enable your teams to customize the information that is of the most value to their work and make forward-looking decisions regarding maintenance.

You can enjoy the benefits of AHM without large capital expense. AHM is billed per flight hour or annually by airplane depending on the level of support. Boeing undertakes responsibility for the digital tools and delivery of information. You reap the benefits of improved operational performance.



## The Boeing Edge

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### Information Services

#### Information Management

- Continental DataGraphics—  
A Boeing Company
- Data Distribution Services
- Digital Publications
- Technical Authoring

#### Real-Time Operations

- Airplane Health Management
- Electronic Flight Bag Solutions
- Electronic Logbook
- Fuel Performance Management
- RFID Integrated Solutions

#### Internet and eCommerce Services

- Inventory Locator Service—  
A Boeing Company
- MyBoeingFleet.com
- OEM Solutions

#### Aviation Software Solutions

- AerolInfo—A Boeing Company

#### Professional Services

### Boeing Commercial Airplanes

Marketing

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[www.newairplane.com](http://www.newairplane.com)

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