Real-Time Operations

Electronic Logbook

BOEING EDGE
Information Services

Electronic Logbook

Providing real-time information across the enterprise

The Boeing Electronic Flight Bag (EFB) is focused on improving your operational performance by bringing the technological advances of electronic information delivery and management to the airplane flight deck, providing integrated solutions for managing information in the air and on the ground.

As an application of the Boeing Electronic Flight Bag, the Electronic Logbook (ELB) replaces paper logbooks with electronic records that will improve operational efficiency and reliabillity.

Simple, intuitive user interfaces.

To maximize user productivity, there are three tailored interfaces and a ground based module.

The Flight Crew client follows Boeing flight deck standards and fits seamlessly into the quiet flight deck environment. A touch screen, big buttons and intuitive interface all minimize pilot training and workload.

The Cabin client provides straight-forward cabin crew fault reporting and logbook history functions.

The Maintenance client is designed specifically for mechanics and engineers as a task-driven user interface to maximize productivity.

The ELB data control ground module is designed to integrate with existing airline back-office systems which are used to monitor the technical status of an entire fleet, perform research and direct resources efficiently.

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Key benefits

- Reduction in operational schedule interruptions (delays and cancellations)
- Improved maintenance troubleshooting time through improved pilot fault reporting and automated fault forwarding to ground personnel
- Reduction in overall line maintenance costs and no fault found (NFF) component removals
- Reduction and/or elimination of paper form handling, transportation and data transcription costs
- Integration to Airplane Health Management (AHM): AHM customers will benefit from automatic integration of Logbook data into the AHM fleet monitoring and history functions; AHM will group together like ELB and AHM fault reports and update the state of Logbook items based on maintenance actions documented in ELB

Pilot fault reporting and automated fault forwarding to ground

- The simple fault locator helps flight crews report faults quickly with a complete or partial fault code
- Accurate fault information means maintenance crews spend less time troubleshooting and reduces the number of unscheduled line replaceable unit (LRU) removals
- Pilot-reported faults using fault codes and fault descriptions sent from the airplane while en route allow maintenance control to assess the problem and make a troubleshooting and repair plan for maintenance crews to perform as soon as the airplane arrives

Take advantage of individualized Lifecycle Solutions.

Every commercial airplane operator has unique needs, defined by business strategies, existing equipment and processes, fleet plans, competitive environment, brand identity and a host of other definitive factors. We will partner with you to identify and quantify the best opportunities for you to improve your operational performance with an EFB solution.

Module	Overview
Flight Deck client	Provides flight crew technical status and fault reporting functions. EFBs host a database that contains flight logs, fault reports, maintenance actions, deferrals, release and servicing records — all synchronized onboard and with the ELB Data Control ground module.
Cabin client	Provides a cabin crew fault reporting process for cabin and in-flight entertainment faults, which are included in the overall ELB database shared with the Flight Deck client.
Maintenance client	Provides a line maintenance user interface that highlights faults needing maintenance attention and remaining servicing tasks required. The maintenance client allows entry of actions, servicing and releasing information while onboard the airplane.
ELB-Data Control ground module	Consists of an application and database hosted locally by the airline that receives and stores logbook data from your fleet. ELB Data Control ground module provides a point of integration to airline back-office systems and additional capability for ELB administrators.

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How ELB Works

Pre-flight	**Initialize flight**	**Fault reporting**	**Close flight**	**Maintenance**
Flight Crew Review	**Start Flight**	**En route**	**End Flight**	**Using the Maintenance client**
Review open items, deferrals, fault history and maintenance release	Flight crew confirmation of final status on maintenance items and flight log information	Automated forwarding provides logbook fault data to ground systems (such as AHM) for notification and advance planning	The flight crew completes documentation of the flight and related fault reports	Maintenance crews review logbook fault reports and document their activities on the ground, which could include: ■ Corrective Maintenance Actions ■ Deferrals ■ Aircraft Servicing ■ Maintenance Release

The Boeing Edge

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