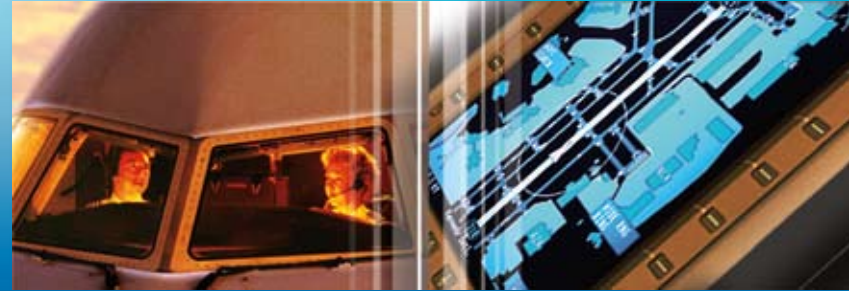




OPERATIONAL PERFORMANCE

Electronic Flight Bag



LIFECYCLE
SOLUTIONS



SCALABLE INFORMATION SOLUTIONS

Boeing delivers LIFECYCLE SOLUTIONS, products, services, and support that will help you achieve success and maximize the value of your Boeing fleet through its life. And Boeing has a set of LIFECYCLE SOLUTIONS focused on operational performance that can help your maintenance, engineering, and flight operations personnel perform their work in the most effective manner possible, increasing efficiency and profitability.

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

INTEGRATED INFORMATION MANAGEMENT, IN THE AIR, ON THE GROUND



The Boeing Electronic Flight Bag is a modular suite of hardware and software solutions designed specifically for the air transportation industry. Boeing's EFB provides a common application suite and ground infrastructure for all classes of EFB. This provides maximum value by providing commonality across all classes of EFB and includes Boeing and Jeppesen applications and data.

With a modular set of applications, you can choose the software that will provide the quickest and greatest return on your investment, and add software components as you need them based on your scheduled systems upgrades and process improvements.

An EFB Solution for every type of operator and fleet.

The Boeing EFB solution enables you to choose the right hardware and software combination for your fleet and operations. Boeing provides Class 1, Class 2, and Class 3 EFB solutions that deliver the same application software packages, common ground support, and administrative software regardless of the hardware solution you choose. You can choose between a fully integrated Class 3, a flight deck mounted Class 2, and a laptop style Class 1 EFB.

Class 1



Having a choice of class type allows you to choose your level of hardware investment based on your business and fleet planning needs. And software commonality across class types allows you to maximize the value of your EFB infrastructure when a mixed-class EFB solution is deployed across your fleet—ultimately reducing training and maintenance costs.

This choice of class type allows you to choose the solution that fits your fleet and business requirements.

The selection of EFB hardware and software choices for managing critical flight information enables pilots and their airlines to manage flights more safely, efficiently, and economically. Boeing is committed to working with you to create efficiencies across your enterprise. We can help you decide what EFB solution is best for your fleet and operations.

Class 2



Benefit from Boeing as the OEM integrator.

We deliver solutions in both production and retrofit. Our EFB solution is a recognized system that allows you to add functionality based on your fleet mix and your specific needs and capabilities.

As the designer and manufacturer of Boeing airplanes, we apply our extensive airplane knowledge and operating expertise to integrate and enhance your capabilities with multiple communication options such as a terminal wireless LAN unit (TWLU), SATCOM and other wireless options, flight deck entry video surveillance system (FDEVSS) option, and a network file server (NFS) that allows future growth for flight deck, maintenance, cabin, and other applications. The possibility of expanding into these domains creates an opportunity to fully integrate the airplane and ground systems into an e-Enabled solution that only Boeing can provide.

Class 3



Increased efficiency in your aircraft operations.

Putting the aircraft on the airline's network is the key to streamlining data-intensive and paper-based operations. You can realize savings and efficiencies almost immediately when you reduce the amount of paper that your pilots are required to bring to the flight deck. And watch the savings continue as you eliminate data distribution costs — entirely in some cases.

A key element of the EFB and an e-Enabled airplane is seamless integration into the ground-based systems. EFB enables you to connect your airplanes to your ground infrastructure, which provides real-time connectivity of the airplane to the ground and the delivery of information across the enterprise, and critical information to the appropriate departments to allow them to make more informed decisions.

Provided with the EFB is software that is hosted on the airline's server for communications and application management. Our Data Distribution Management (DDM) system is used to deliver software parts to the airline. Airport Wireless can be used to deliver these parts to the airplane, and we can develop a phased plan for this optional capability. Boeing can help with the integration of these airborne and ground systems.

Anticipate future growth and technology development.

Our EFB is already designed to accommodate next-generation technological developments as they become available.

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.

Software Module Solutions	Value/Benefit
Airport Moving Map (AMM)	<ul style="list-style-type: none"> • Enhanced safety and security • Reduced fuel cost per flight for each minute of taxi time delay saved • Reduced insurance premiums from addition of safety enhancements
Electronic charts and documents	<ul style="list-style-type: none"> • Increased document handling savings through elimination of document preparation, maintenance, and distribution • Reduced onboard weight by reducing or eliminating flight deck paper • Reduced pilot injury and associated costs caused by lifting/twisting paper document out of the onboard flight bag
Onboard Performance Tool (OPT)	<ul style="list-style-type: none"> • Fuel cost savings for each minute of taxi time delay saved per flight • Reduced dispatch delay costs for each minute of delay saved per flight • Reduced engine maintenance costs by increasing flight takeoffs at lower derates • Increased revenue and lower costs by optimizing payload for current takeoff conditions
Electronic Logbook (ELB)	<ul style="list-style-type: none"> • Dispatch delay costs saved for each minute of delay saved per flight • Improved maintenance troubleshooting time through improved pilot squawk capture • Document handling savings from eliminating document preparation, maintenance, and distribution • Reduction in no fault found (NFF) component removals
Electronic Flight Folder (EFF)	<ul style="list-style-type: none"> • Reduce or eliminate paper printing, handling, and storage costs • Improved labor efficiencies with Flight Crew and Ground report processing • Improved maintenance and engineering reliability
Video surveillance	<ul style="list-style-type: none"> • Enhanced safety and security allow operators to meet regulatory requirements for operational surveillance • Reduction in number of displays



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