



Photo by Vasco Garcia

CHALLENGE

To utilize advances in computing power, communications, and data distribution methods to reduce costs and increase operational efficiencies - in the aircraft and on the ground.

SOLUTION

Jeppesen is developing applications that will bring significant new capabilities to the Jeppesen Electronic Flight Bag. These applications will provide increasing integration of functions performed in the aircraft and in the airlines' ground infrastructures. These new applications include:

ELECTRONIC LOGBOOK

The e-Logbook quickly and accurately identifies faults, records and reports them, then passes MEL deferred items to the EFB's on board performance calculator. The considerable capabilities of the e-Logbook will be introduced in several phases.

The Fault Finder and Reporting module features a variety of fault finding tools including:

- Graphical fault finding
- Customizable fault finding graphics and fault code database
- Text search
- Alert message search (EICAS, ECAM, EIS)
- Standard fault report form with datalink and print capability

The Form Builder module will permit enhanced recording of faults and offers:

- Custom form creation interface
- Customizable fault report form
- EFB form display, data collection, print and datalink application
- Conditional, discrete and choice driven forms
- Form validation

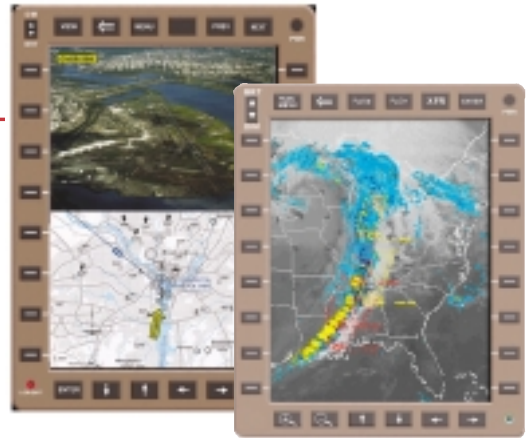
The Logbook module will automate the reporting of faults to ground maintenance facilities.

It features:

- Fault Finder and Reporting as above
- Form Builder as above
- Flight Log, maintenance action, servicing & maintenance release recording
- Database driven logbook history
- Database synchronization with master ground database
- Integration with other Boeing tools (CMCF, AHM, PMA, E1)
- Adapters for ERP integration

Additional planned e-Logbook modules include Maintenance Device, Cabin Device and Internal Access applications for flight operations and maintenance personnel.





AIRPORT FAMILIARIZATION AND QUALIFICATION

The Airport Familiarization and Qualification application is an innovative means of developing pilot familiarity with new airports, improving crew situational awareness and enhancing safety with photo and graphical depictions of the airport environment. This tool features:

- Photographic overview and approach to each runway end
- Graphical presentation of terrain and other obstacles
- Pertinent local traffic information
- Useful notes and procedural explanations
- Availability of selected airports

WEATHER AND NOTAMS

This application promises to offer near real-time weather and NOTAM information for planning and operational decision making. Weather and NOTAMs can be integrated with other EFB features, including moving map, flight plan release, and performance calculations to assist the pilot in making deviations from their planned route based on up-to-date weather and other information.

ELECTRONIC CHECKLISTS

e-Checklists will provide fast and easy access to operational information, and offer customized forms for aircraft and operational procedures and feature fast searching capability.

Versions of the normal, non-normal, and emergency checklists, uncoupled from the aircraft systems, will be offered. They will record completed tasks and pending tasks. e-Checklists will maintain position during interruptions.

ENROUTE MOVING MAP

Enroute moving maps are a logical extension of the electronic terminal charts. They will include selectable navigation and airspace information, and will utilize position information from aircraft systems for a heading-up map to increase situational awareness. Enroute maps may be overlaid with downloaded weather maps.

ADDITIONAL FUTURE APPLICATIONS

There are many opportunities to include other applications, functions and features in the Jeppesen Electronic Flight Bag and we are busy evaluating them.

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