



Lido eRouteManual

Charting your way to a paperless cockpit

Lido eRouteManual creates value

- Increases situational awareness and enhances safety
- Realizes cost and time efficiency
- Simplifies revision processes
- Integrates all relevant documentation for navigation into one e-solution
- Provides customizing and tailoring options

The concept

The Lido eRouteManual solution electronically generates charts directly from an aeronautical database that contains geographical and aeronautical information of the entire world. Switching to eRouteManual charts and establishing paperless cockpits offers airlines a great savings potential since printing and internal logistics costs will be reduced to almost zero. Enroute charts are created automatically from defined route data,

displaying route and current position in the relevant chart section. The aeronautical database serves also as the basis for successful and proven Lido modules, such as Lido Operations Center (Lido OC) and Lido Flight Management System (Lido FMS). This concept allows data-traceability to its source. Lufthansa Systems is the first IT service provider to satisfy the demand for a fully integrated flight support services solution.



User interface showing approach chart Frankfurt



Features and functions

The capabilities of Lido eRouteManual range from static terminal and enroute charts to dynamic (moving) charts including airport navigation charts.

For dynamic charts the Lido eRouteManual can use route information retrieved from the Lido FMS in the cockpit. Enroute charts are created automatically in accordance with FMS routing. These charts display color-coded route and aircraft position information in the relevant chart section. Any route change in the FMS will be directly depicted in the chart.

Developed in close collaboration with pilots, the user interface of Lido eRouteManual

enables intuitive pilot use in accordance with standard cockpit workflows. The level of detail is optimized depending on the chosen zoom level to ensure good readability and to avoid cluttering. Additionally the pilot can configure information to be shown or hidden. Dynamically generated charts present information either freely pannable, or centered on the present aircraft position.

All navigational information, route segments, topographical information, etc., are shown to scale. Great circle distances can accurately be measured between two given points. Information of airports, nav aids, waypoints, airways, FIRs, and other objects can be looked up for frequencies, coordinates, tracks, altitudes, etc.

The user interface and functionality of the Lido electronic chart system were designed in compliance with the Volpe and Federal Aviation Authority "Human Factor Considerations in Design and Evaluation of EFBs". The long operational experience of airline pilots contributed to the outstanding humancomputer interface design.

Lido eRouteManual runs on any EFB platform (Class 1–3).



User interface displaying dynamic enroute chart

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