



Paperless cockpit:

The A380 flies with electronic charts from Lufthansa Systems

The eRouteManual from Lufthansa Systems is the first chart solution that was integrated into the On-board Information System (OIS) of the A380. As a result, the paperless cockpit is gradually becoming a reality, since the electronic chart solution from Lufthansa Systems provides the crew of the A380 with quick access to global airport data, departure and approach charts as well as all other important aeronautical information that is essential for safe and efficient flights.

"The inclusion of our chart solution into the cockpit of the A380 highlights our pioneering role in flight information services. This first step toward the integration of our solution is the result of the excellent cooperation between Airbus and Lufthansa Systems. Our customers have every reason to expect this cooperation to deliver both economic benefits and simplified logistics," said Wolfgang F. W. Gohde, chief executive officer, Lufthansa Systems Group GmbH.

The cutting-edge chart production process, which is completely database-driven, provides the cockpit crew with a large number of new functionalities. Pilots can choose to display individual approach and departure patterns for the various airports with all relevant information. The minimum safety altitudes along departure and approach paths are presented in such a manner that pilots can register them at a glance.

The electronic charts display the current aircraft position and route at all times and incorporate a variety of other information which pilots previously had to obtain from several different sources. This includes current weather information, which can be accessed interactively, and all relevant NOTAMs - current information for pilots such as airport conditions, outages of navigation systems or time restrictions for certain air space. In addition, the eRouteManual provides access to all information contained in the comprehensive route manuals as well as country- or airport-specific regulations and data.



Aside from its depth of information, simple and flexible handling is another key advantage of the electronic chart solution. Pilots can rotate, enlarge or reduce the charts (zoom function), thereby freely choosing the level of detail presented in each chart section. If the flight route is changed in the navigation system, the eRouteManual automatically offers the new chart selection right away. This supports the pilot's workflow optimally - both during normal operations and in exceptional situations. Even the standard package includes an adjustment to the customer's own airline data and their integration.

Lufthansa Systems is the first provider to use GIS technology (Geographic Information System) and an integrated database in generating the charts. The chart data are directly visualized, so to speak. This has a positive impact on chart quality, the time needed for producing them, and, most importantly, it ensures that the charts are always up-to-date.

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