Flexible navigation solutions
for any airline setup

Our navigation portfolio includes the full range of trendsetting electronic charting solutions (Lido/mPilot and Lido/eRouteManual) based on our well-known charting standard (Lido/RouteManual). These solutions are completed by a highly accurate dynamic Airport Moving Map (Lido/AMM) functionality and the appropriate database Lido/AMDB. To round it all off we provide the navigation database (Lido/FMS) for the flight management systems of all modern aircraft types.

Our own navigation database contains aeronautical information and topographic data with worldwide coverage. It forms the basis for constantly up-to-date navigation solutions. We developed our products jointly with pilots and navigation experts in order to offer you the maximum possible professionalism, quality, and usability. Naturally, we take all the requirements of the international aviation authorities into account.

Single, high-quality data source

- One database as the basis for all Lido/Navigation products for consistency throughout all flight phases

Focus on flight safety

- All navigation charts are to-scale showing terrain and topography for increased situational awareness
- Charts use an intuitive layout with self-explanatory symbols and color coding, allowing fast perception of relevant information
- Dynamic ground charts provide enhanced situational awareness and runway incursion protection

Flexible electronic solutions

- Lido/eRouteManual is available for any hardware setup, from standard laptop or tablet to integrated flight deck solutions
- Lido/mPilot for iPad devices offers full access to all navigation charts, our worldwide dynamic enroute map and additional documentation

Smart navigation solutions
for your flight deck

What is an absolutely fundamental prerequisite for safe flight operation? Precise navigation! With our navigation products we provide you with high-quality and individually tailored products for your flight operation. You can access all the necessary information for your flight route easily at a glance.
**Lido/RouteManual**

All of our charts show true-to-scale topographic information such as mountain heights, river courses, etc. and are oriented magnetic north up. This means, for example, that the depiction of the different takeoff and landing procedures with regard to the time and distance between airports is always precise. Our Lido/RouteManual thus meets the highest standards in terms of precision and quality.

Core features of Lido/RouteManual:
- High-quality charts can be tailored to your flight operations
- Quality and completeness are assured
- The detailed topography of our data allows approach via directs

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**Lido/mPilot**

This all-in-one navigation application offers easy access to your terminal charts and a dynamically generated enroute map, as well as your operational documents. Lido/mPilot makes use of all the benefits of your iPad on the move, at the hotel or in the flight deck. With its integrated mobile connectivity, long battery life, large screen and above all its convenient size, your iPad will soon become your smart companion during and subsequent to your entire operation.

Core features of Lido/mPilot:
- Your flight deck workflows are fully supported and optimized
- The fully dynamic worldwide enroute maps always offer an optimal view of the relevant information
- Our intelligent synchronization process makes your data updates as fast and easy as possible
- Apple's Push Notification service keeps the app informed about all data changes
- The load on your back office processes is reduced by our app control and reporting tools
- The messaging and read-and-sign function within the documents module enables new forms of information update to the flight deck
- Optimized for airline use, Lido/mPilot is designed to improve the pilot's situational awareness
Lido/eRouteManual

With Lido/eRouteManual we provide you with an electronic version of our navigation charts which considerably enhances the benefits of Lido/RouteManual. With Lido/eRouteManual you can, for example, select the information depth of the charts individually using different zoom levels and highlight the selected approach and take-off procedures in the chart. The extensive scope of charts provided by Lido/eRouteManual includes the display of airport taxiways as well as approach and take-off charts and a seamless, worldwide route map.

The identical chart structure within our electronic charting solutions supports you in your efforts to convert successively to a paperless flight deck. When designing our electronic charts we took the latest regulatory standards into consideration and tailored them specially to the needs of airlines operating worldwide.

Core features of Lido/eRouteManual:
- Lido/AMM integration
- Independence of hardware and compatibility with avionics built-in
- Support of tablet devices including multitouch gestures
- Map centering and own ship position as options for worldwide enroute map and terminal charts
- Selected approach and take-off procedures are highlighted on the chart
- Integrated situational awareness features on airspaces and special areas
- Availability of data overlay for the enroute map (weather data, escape routes,...)
- Compatible with standard Windows environments

Core features of Lido/AMM:
- Situational awareness during taxiing is increased
- Runway incursion is prevented by means of intelligent warning messages
- Selection of taxi destination with auto zoom function
- Full integration into Lido/eRouteManual with triggering of ground map on touch-down

Lido/AMM

Maintaining situational awareness while taxiing at the world's largest and most congested airports can be a challenging task. Our Lido/AMM solution helps you to find your way at almost any airport in the world.

It displays geo-referenced airport maps that assist your flight crews during ground operations. Conducting safe and efficient taxi operations can be so easy: Our Lido/AMM shows the own-ship position with heading direction and the highlighted gate position or runway entry.

Our charts as Lido/eRouteManual on your Surface

Screenshot of our Lido/AMM – the yellow arrow symbolizes your position
Lido/AMDB
Lufthansa Systems’ Airport Mapping Database Lido/AMDB is a highly accurate and geo-referenced representation of the layout of an airport. Using our Lido/AMDB with an airport moving map application will help you to orient yourself on the airport surface during taxi operations. You are supported during taxiing in all weather conditions by a geo-referenced airport map in the navigation display. Our highly accurate Airport Mapping Databases describe the spatial layout of an airport. This includes the geometry of runways, taxiways and buildings as well as further attributes such as surface type, object identifier and runway slope. In order to produce accurate airport data the airport database is generated using geo-referenced satellite images. This is the best way to align the own-ship position accurately to the chart. The AMDB raw data is checked and extended with our airport data from the officially published Aeronautical Information Publications (AIPs). The production and revision process for our Lido/AMDB is embedded in Lufthansa Systems’ Lido/RouteManual and Lido/FMS production. This provides maintenance, revision and delivery from a single, consistent data source. In addition, the processes comply with the industry standards as defined in DO-272B and ARINC 818. Our Lido/AMDB production processes are certified by EASA according to RTCA DO-200A with a LOA Type 1.

Core features of Lido/AMDB:
- Highly accurate geo-referenced airport data
- Different airport moving map applications can be used
- Revision service synchronized with other Lido/Navigation products

Lido/FMS
Precise in-flight navigation data are fundamental to flight safety. Using the on-board flight management system, the flight crew can access flight-relevant information at all times and plan the route accordingly. All the relevant aeronautical data are provided: information about airports, airways, waypoints, radio beacons, holding patterns and approaches, etc. – tailored to your aircraft types, your hardware and your route network.

Core features of Lido/FMS:
- Highest certified FMS data quality in ARINC 424 standard
- Certified by EASA with a LOA Type 1 (according to RTCA DO-200A)
- 24/7 access to our expert customer service and online data management
- Independent partner for data, service and support
- Also available for flight simulators, flight planning and more

Lido on the EFB
Our electronic flight deck solutions are integrated into almost every EFB solution available on the market and are enabled for easy implementation into any operational environment. Flight relevant data can be shared between the EFB Modules and the Lido charting applications for an optimized flight operation workflow. Using our world-leading flight planning solution Lido/Flight will enable additional benefits in supporting the whole range of flight relevant data within our flight deck solutions applications on the EFB. The flight route will be shown and highlighted on the map for better situational awareness. In supporting any kind of connection to the aircraft systems the actual position can be shown on the enroute map as well as on terminal and dynamic ground charts. Data updates can be integrated directly within the EFB solution as a one-step update or may be handled via the Lufthansa Systems distribution methods as a separate service. This one-of-a-kind integration allows you to focus on what really matters: flying the aircraft.

> More than 200 customers already rely on our solutions. When do you join?