



Highest quality data for your UAV operations

Lido Data Solutions

Drones are becoming more common in people's lives – both privately, but especially at work. They have a variety of applications in across a plethora of industries, including site inspections, infrastructure monitoring, mapping, emergency response, security and border control surveillance, and law enforcement.

Reliable databases – including information such as airspaces, restrictions, obstacles, and terrain – are crucial for operating unmanned aerial vehicles (UAVs), particularly for beyond visual line of sight operations.

Lufthansa Systems offers aeronautical databases – the Lido Data Solutions – which are created with over 20 years of experience. Certified data ensures that you receive the highest possible data quality, and authorization from civil aviation authorities can be accelerated. The data is specifically designed for the aviation industry, and many flexible tailoring options are available to fulfil all your operational requirements. Furthermore, the worldwide data coverage and standardization allows for international and crossborder operations.

Over 250 airlines and other aviation organizations – including avionics and flight simulator manufacturers, drone application providers, and flight planners – already rely on the Lido Data Solutions. Find out more about our portfolio, and request a data sample today.

Use Cases

The Lido Data Solutions have a wide range of applications specifically within the aviation, Advanced Air Mobility, and UAV industries, including:

- Segment and define operational areas for UAV actions, including acceptable launch and landing areas (Definition of Operational Areas), and restricted airspace information.
- Plan routes that are safe and efficient; data layers can contribute to the determination of optimal flight routes based on parameters such as shortest travel time, minimum elevation gain, and maintaining a safe buffer over and around different surface features.
- Flight management system like onboard navigation based on EASA-certified aeronautical data.
- Identification of suitable alternate or emergency landing sites.
- Determine height above ground for UAVs while enroute, based on GPS position and surface model (enables compliance with altitude restrictions).
- Anticipate obstructions and minimize the risk of collisions or design safe flight procedures by using our terrain and obstacle databases.

What we offer ...

Lido Sky Data



Worldwide navigation information such as airspaces, airports, heliports, runways, waypoints, navaids, airways, and flight procedures, updated every 28-day AIRAC cycle.

Key benefits & features



Standardized worldwide aeronautical navigation data



In line with relevant industry standards



Multiple file formats supported



Supports the automation and digitalization of various aeronautical processes



24/7 expert-level customer support

Lido Surface Data Obstacles & Lido Surface Data NEXTView (Terrain)



Worldwide obstacle database, and a high-resolution terrain model.

Lido Surface Data Obstacles contains more than 3 million unique obstacle, each of which is provided with up to 60 attributes, including information about type, height, and lighting.

Lido Surface Data NEXTView (terrain) is a highly accurate global high-resolution 6m digital surface model. It is certified by EASA and offers various customization options.

Key benefits & features – Obstacles



Standardized and EASA-certified obstacle data extracted from authoritative sources, such as Aeronautical Information Publications, electronic terrain and obstacle data sets, and NOTAMS



Various export formats, including CSV, ESRI Shapefile, and AIXM 5.1



In line with relevant industry standards



Extensive metadata characterizing each obstacle in detail (up to 60 attributes)

Key benefits & features – Terrain



Vertical accuracy up to 3 meters LE90



Data continuously updated to address changes in an ever-changing environment



EASA Service Provider Certificate Type 1 and regular audits ensuring highest data quality

→ For more information please contact marketing@LHsystems.com