Lido/Flight and Lido/FPLS

A component of

IOCC
Integrated Operations
Control Center Platform

Rely on our efficient flight-planning solution and dispatch support

You are looking for reliable operational flight plans? Our market-leading flight-planning solution Lido/Flight provides dispatchers with a host of options to optimize time and costs. You want to receive your flight plans on time, around the clock and ready to be released by the Air Traffic Control centers without additional resources in your dispatch team? Rely on our dispatch support service Lido/FPLS.

Lido/Flight Ops Suite

Powerful, high-availability IT systems are essential to provide reliable and efficient flight operations. Our Lido/FlightOps Suite provides airlines with the necessary tools and innovative solutions, enabling them to optimize processes, save fuel, and reduce costs.

Lido/Flight covers all aspects of flight-planning from take-off to landing. Briefing, performance calculation and graphical flight tracking are only some functionalities of the large Lido/Flight spectrum, all based on the high-quality aeronautical data provided by our in-house experts. Depending on your operational requirements, operational flight plans can be generated either manually, semi-automatically or even fully automatically. If you choose Lido/FPLS we generate all the relevant briefing information for you using Lido/Flight in our Service Center.

> Significant fuel, emissions and cost savings

- Lido/Flight provides you with a host of optimization options, e.g. minimum fuel burn, minimum time or minimum costs.
- Fuel savings of up to 5 % are possible.
- Using Lido/FPLS you can benefit from minimum setup costs and time.

> Everything is tailored to your needs and your individual airline policies

- You can combine all optimization options tailored to your needs.
- Using Lido/FPLS, simply provide us with your flight schedule, payload and operational conditions and we supply all the relevant briefing information to your specific reception media.

> High quality on every level

- Our flight-planning solutions are developed and maintained by highly-qualified aviation experts.
- Our high-quality aeronautical data with worldwide coverage is well-known all over the world.
- Certified dispatchers with many years of experience are available for you around the clock.

Lido/Flight offers the following flight-planning and analysis functionality.

Optimizations:

- Automatic airport suitability check according to valid restrictions and current weather conditions for departure, destination, alternate and ETOPS alternate airports, requiring no manual intervention
- Integrated take-off and landing performance calculation
- Well-engineered route optimization with minimum fuel burn, minimum time as well as minimum cost
- Optimum flight level profile, considering e. g. wind situation and ATC restrictions
- Environmental flight profile, minimizing CO_2 emissions
- Variable cost index calculation and optimal flight speed
- Manual up to fully automated ETOPS calculation, considering equal time and equal fuel policies as well as flexible settings for icing conditions

- Automatic consideration of all valid flight restrictions, e. g. RAD, CRAM, NOTAM, AIP regulations, overflight permissions or weather minima
- Different route selection criteria, e. g. pre-defined company routes, OTS, PACOTS, SAT and POL
- Most economic trajectory in free flight airspaces
- Economical fueling and tankering
- Consideration of operational aircraft data (take-off, climb, cruise and descent, landing MEL, CDL, etc.)
- Reclearance option with just a few mouse-clicks
- Worldwide access to briefing packages as well as the operational flight plan
- Diversified and efficient in-flight assistance and monitoring

Analysis:

- Integration of strategic flight-planning and post-analysis activities into day-to-day operations
- Post-flight analysis also in the form of management reports with reliable statistics
- Realistic and accurate pre-planning with statistical weather and pertinent navigational data

Interfaces:

- Integration of data flow between all related areas of flight operations: operations control, scheduling, weight & balance, crew management, flight watch and fuel purchasing systems
- Interface with the Central Flow Management Unit (CFMU)
- Air-to-Ground communication with datalink
- Preparation of the ATC Flight Plan including addressing
- Transmission of briefing packages including Weather and NOTAM tailored to a flight event

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Lido Aeronautical Database

The comprehensive functionality of Lido/Flight relies on our Lido Aeronautical Database. It comprises all aeronautical data of a non-proprietary nature with worldwide coverage according to ICAO Annex 3 and 15.

We are here for our customers:

Lufthansa Systems provides an online 24/7 data service for the Lido/Flight system. This includes our replication processes for delivering new and updated data to our customers continuously.

Meet our new flight monitoring tool!

Lido/Flight *WINDS* (Weather Information and Decision Support) is our powerful virtualization module, further enhancing Lido/Flight as a mission support tool. It allows your dispatcher to act as a third crew member – always ahead of the upcoming wind and weather conditions affecting the flight.

Lido/Flight *WINDS* significantly raises situational awareness on the ground. Displaying ACARS position reports and ASDI data provided by FAA or Eurocontrol, it enables your ground team to support the aircrew. This may be information well in advance regarding severe weather conditions or optimum judgement assistance if ATC offers a direct routing.
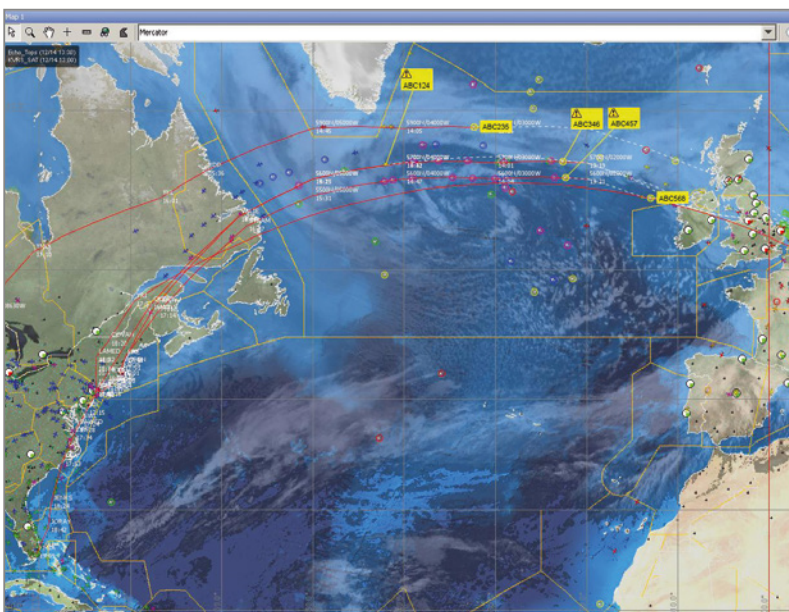
Depending on your airline philosophy, Lido/Flight *WINDS* can also be used as a routing enhancement tool during the inflight phase. If, for example, a flight is deviating from the previously planned routing due to circumnavigating a weather phenomenon, a more efficient routing may exist from the current position to the destination.

Flight tracking with Lido/Flight WINDS

Lido/FPLS – flight-planning services based on Lido/Flight.

Simply provide us via our web interface with your flight schedule, payload and operational conditions of your flight and we will supply all the relevant briefing information to your specified reception media.

You can use our modern user interface to specify the operational parameters for your entire flight schedule or for individual flights resulting in a briefing package that is optimally tailored to the specified data, such as payload. Our standard service includes the delivery of the most efficient flight path prior to the flight as well as all necessary information regarding flying conditions, airport weather and all relevant NOTAM at generation time of the briefing package. In addition, updates on the flight plan can be provided on request during flight.

Lido/FPLS calculates the most efficient routing using the optimizers and algorithms of our proven flightplanning solution Lido/Flight. The web-based solution Lido/FPLS is particularly interesting for those small and medium-sized airlines who wish to improve their flight operations by means of effective planning while simultaneously reducing their fuel consumption and other costs. Certified dispatchers with many years of experience are available around the clock at our Service Center to help our customers with any further questions.

IOCC
Integrated Operations Control Center Platform

This solution is a component of the Integrated Operations Control Center Platform (IOCC).

It is the first fully-integrated IT platform capable of controlling and monitoring all aspects of airline operations, including schedule management, operations control, crew management, flight-planning and weight & balance. Because of the synergies the IOCC Platform generates, it offers airlines much greater economic benefits than stand-alone systems. Learn more about our platform and visit us at **www.IOCC.LHsystems.com**.

Components of the IOCC Platform:

- **IOCC/Sched**
- **IOCC/Ops**
- **IOCC/Crew**
- **IOCC/Flight**
  - Lido/Flight
- **IOCC/Load**

Our optimizations consider all following data:

- **Static AIS Data/Basic Aeronautical Data from official state publications as published in national AIPs or other legal sources (SUP, AIC, NFDD, DAH, …) such as:**
  - Static AIS Data/Airport Data
  - Aerodrome Curfew Information
  - Airspaces (FIR/UIR, Restricted Airspace, Special Use Airspace etc.)
  - ATC Addresses (AFTN and/or SITA if applicable)
  - En-route Obstacles as per AIP, NOTAM or any other official source
  - IATA Currency Exchange Rates
  - NAV Aids
  - NAV (ATC) Charges
  - Runway Data & Runway Facilities
  - Segments (Airways, DCTs, NARs, NERs etc.)
  - State Minima
  - Terminal Procedures (SIDs & STARs)
  - Waypoints

- Dynamic AIS Data/NOTAM (International Class I, Domestic, Military)
- SNOWTAM
- Traffic Flow Restrictions
- Organized Track Systems

- **Meteorological Data such as:**
  - Scheduled OPMET Data (Airport Weather Data)
  - Non-Scheduled OPMET Data
  - UAD – Upper Air Data
  - Statistical Weather UAD
  - Significant Weather Forecasts in BUFR code form
  - Significant Weather Forecasts in chart form
  - Satellite Images

- **Terrain and Obstacle Data based on the following sources:**
  - Shuttle Radar Topography Mission (SRTM)
  - Digital Terrain Elevation Data (DTED) from NIMA
  - Vector Map Level 0 (VMAP0™) from NIMA
  - DEM for Australia, Japan, New Zealand, Brazil and Greenland

- Aircraft Performance Data