



# NetLine/Ops ++

## Manage your airline operations ahead of time

Is your operations or hub control center well prepared for unforeseen events like bad weather conditions, critical inbound or outbound passenger connections, missed ATC slots or sudden technical problems? Are your benefits as an airline group fully exploited in terms of hardware consolidation, multi-source data integration with different crew management systems, pro-active alerting and resource sharing? If you hesitate, then consider our airline operations control system NetLine/Ops ++.

### The next-generation operations control system

Bad weather, missed slots or technical problems on the day of ops can lead to multiple schedule changes. Fast, cost-efficient and safe operational decisions are called for here. NetLine/Ops ++ optimizes the daily utilization of your flights, increases user productivity and improves your airline management when there are deviations from your regular schedule.

In short, NetLine/Ops ++ is the most comprehensive operations control system on the market.

### Continuous enhancement and refinement

Lufthansa Systems is continuously refining the management by exception approach to reduce your workload even more.

How is this being done? With airline operations ahead of time, using new technologies (such as artificial intelligence), based on the web and the principles of SOA (service-oriented architecture).

A REST API connects NetLine/Ops ++ to every other application based on the SWIM (system-wide information management) standard. Advanced new technologies such as AI and optimizers are integrated seamlessly.

# Features and functions

## Process-oriented information management

The modern graphical user interface is intuitive, process-driven, and open to flexible customization. NetLine/Ops ++ presents all information in user-friendly, ergonomic graphics, pre-selecting and highlighting potentially critical situations.

## Powerful decision support

NetLine/Ops ++ offers a variety of decision support tools. Operation controllers can evaluate the consequences of decisions in a scenario before the solution is carried out. When working in a scenario, alerts are automatically generated in the event of conflicts with the actual schedule. Management by Exception allows filtering affected aircraft according to specific criteria. The selected legs are updated automatically in the Gantt Chart. NetLine/Ops ++ collects an extensive range of additional data – e. g. pax booking, critical weather conditions, crew rotations, airport limitations. A configurable smart information function with important leg and aircraft related data facilitates access to all the necessary information.

## NetLine/Ops ++ add-on modules

NetLine/Ops ++ generates additional value through fully integrated add-on modules:

### NetLine/Ops ++ aiOCC

Is an AI-powered assistant that supports airline operations controllers in increasing the stability and efficiency of daily operations. The system analyzes historical data and monitors all events around aircraft, rotation, passengers, and crews simultaneously to identify delay risks ahead of time. It translates the information from these sources into concrete actionable recommendations.

### NetLine/Ops ++ MaintenanceControl

supports maintenance planning and control functions. It enables full compliance and optimizes your check utilization by collecting aircraft flight hours and cycles as well as validating the schedule against a configurable maintenance rule set. As a result, you benefit from reduced costs.

### NetLine/Ops ++ Package Builder

allows scheduling and management of fine granular maintenance work packages to guarantee the regulatory compliance and maximize the flight service time of an aircraft. It offers an integrated set of dialogs which offers Ops Controllers and Maintenance Planners access to detailed maintenance information.

### NetLine/Ops ++ Compact

is a web browser-based “read-only” Gantt chart which provides full or restricted visibility on NetLine/Ops ++ to interested parties not working with the NetLine/Ops ++ PowerClient. Open the Compact Gantt Chart on any device and have the OCC in your pocket.

### NetLine/Ops ++ CrewConnex

visualizes incoming and outgoing crew connections when clicking on a leg. The duty start and duty end of each crew member of the leg and all legs of the duty in between are connected by lines. The color of the lines indicates the type of crew member (cockpit, cabin, deadhead).

### NetLine/Ops ++ PaxConnex

visualizes incoming and outgoing PAX connections. The inbound legs of all connecting PAX are shown. Different colors and mouse over information indicate the type of PAX (F, C, Y, status PAX) and critical connections in regards to the Minimum Connection Time (MCT). Pax Misconnex alerts indicate all critical passenger connections and enable the OCC to take action.

### NetLine/Ops ++ Airport Slot Handling

is providing the airport slot statistics for each departure and each arrival slot of each leg from NetLine/Slot Monitor. For each airport slot, NetLine/Slot Monitor delivers the number of slot violations (e. g. cancellations, time changes, etc.) that are still possible without losing the historical (grandfather) slot rights. The number is calculated based on the rules configured in NetLine/Slot Monitor. Thresholds can be set and OCC will get an alert about potential airport slot issues.

### NetLine/Ops ++ A-CDM

can receive and evaluate target times for Airport Collaborative Decision Making (A-CDM):

- Target Offblock Time (TOBT)
- Target Startup Approval Time (TSAT)
- Target Takeoff Time (TTOT).

They are interpreted, stored, and displayed in the solution. Late target times trigger delay propagation for the affected leg in the Gantt Chart, also triggering the delay propagation feasibility warning. If estimated times differ substantially from the ETD, a more restrictive A\_CDM departure delay warning is triggered.

### NetLine/Ops ++ OpsLink

is the integrated intranet solution for safe and cost-effective real-time access to operational data. This add-on module delivers schedule and actual movement times to any desktop with minimal deployment costs. Overhead costs for communication, hardware investment, and maintenance are reduced.

<b>NetLine</b>	→ <b>NetLine/Plan</b> Network planning	→ <b>NetLine/Slot</b> Slot Management	→ <b>NetLine/Crew</b> Crew management	→ <b>NetLine/HubControl</b> Passenger connection & Turnaround management
	→ <b>NetLine/Sched</b> Schedule management	→ <b>SchedConnect</b> Codeshare management	→ <b>NetLine/Ops ++</b> Operations control	→ <b>NetLine/Load</b> Weight & balance