



NetLine/Plan

NetLine/Sched

NetLine/Ops

NetLine/Crew

NetLine/Sched Rotation Optimizer

Creating and optimizing aircraft rotations

NetLine/Sched Rotation Optimizer creates value

- Highly sophisticated algorithms can save aircraft and offer trade-offs
- Delay risk minimization due to advanced optimization steering

Creating and maintaining aircraft rotations manually is a time-consuming and error-prone task. A fast-changing environment and numerous constraints call for an automated way to build and optimize rotations.

The NetLine/Sched *Rotation Optimizer* builds logical aircraft rotations while observing a number of pre-determined schedule constraints which ensure that the resulting rotations can actually be flown. The standard *Rotation Optimizer* offers the traditional FIFO and LIFO algorithms in the

standard version, and an extended version of *Rotation Optimizer* is available for more advanced optimization. Its benefits include the capability of optimizing quick-change aircraft configurations and positioning flights.

As a market-leading product NetLine/Sched *Rotation Optimizer* is unmatched in quality or speed by any competitor product.

More than 30 airlines enjoy the benefits of NetLine/Sched *Rotation Optimizer* worldwide.

The screenshot displays the NetLine/Sched software interface. At the top, it shows the title bar 'NetLine/Sched - Schedule - Screen B: 270c102-29Mar03'. Below this is a menu bar with options like 'System', 'Schedule', 'Selection', 'Problem Desk', 'Edit', 'Data Editors', 'Optimizers', 'Reports', and 'Options'. The main area is a grid representing a flight schedule. The columns are labeled with days of the week (Tue Dec 10, Wed Dec 11, Thu Dec 12) and numbers 0-31. The rows represent different aircraft types and flight numbers, such as '13 319 10', '14 319 10', '15 319 10', etc. Each cell in the grid contains flight details, including flight numbers, times, and aircraft configurations. The interface also includes a status bar at the bottom with information like 'LH 4049', '10DEC02', 'FRA 0925', 'TIP 1325', and 'M:3'.

Rotations built by the NetLine/Sched Rotation Optimizer



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Features and functions

The NetLine/Sched *Rotation Optimizer* is designed in such way that it can be used as a decision support tool over the entire process from longer-term schedule planning to shorter-term schedule management. Its breathtaking speed and sophisticated yet flexible optimization algorithms make it the ideal decision support tool in schedule planning and analysis, when flight timings are not yet fixed down to the minute. Furthermore, its accuracy and the quality of the solutions produced make it the perfect choice when it comes to schedule implementation.

The NetLine/Sched *Rotation Optimizer* is fully integrated with the NetLine/Sched core system: it shares all of the required

constraint data such as minimum ground times and fleet sizes with the NetLine/Sched system. The schedules used in the *Rotation Optimizer* are also read out of and written into the what-if memory of the NetLine/Sched system.

System requirements

- UNIX server (HP-UX, AIX, Solaris, LINUX)
- Client OS: Windows XP/Vista, UNIX workstation
- LAN clients using a PC X Server (WRQ Reflection or Hummingbird Exceed for Windows clients or the respective X Server for UNIX workstation clients)
- WAN clients using a data centralization solution (Sun Secure Global Desktop or Citrix Presentation Server)
- Oracle database

Tactical Fleet Assigner

Rotation Optimizer

Slot Manager

Slot Monitor

Tactical PEM

Flexible Reporting

Local Fleet Assigner

Contact:

Lufthansa Systems AG
 Marketing Communications
 Am Weiher 24
 65451 Kelsterbach
 Germany

Tel. +49(0)69-696 90000
 Fax +49(0)69-696 95959
 marketing@LHsystems.com
 www.LHsystems.com