



GE Aerospace

SOFTWARE AS A SERVICE

Network Operations Crew Optimization

Recover quickly and keep crews on schedule.

Network Operations Crew Optimization offers effective solutions for airline crew managers and schedulers to recover crew schedules from both operational disruptions and crew availability problems. This empowers them to solve availability problems and disruptions quickly and efficiently to keep flights on time and passengers happy.

Detect

Designed for high-speed computing, Crew Optimization is used for small- and large-scale disruptions. Based on airline operational data, the application detects and displays any crew issues, including pairing discontinuity, open pairings, misconnects, and uncovered flights.

Optimize

Crew Optimization quickly provides multiple solutions. Options are generated from logic sequence variations based on “what-if” scenarios for actual detected problems and for anticipated disruptions, such as incoming delays and sick crew, to full station closures.

Solve

Using the airline’s data and solving parameters, the Solver returns one or more optimized solutions for the problems and scenarios at hand. Solutions are optimized according to business priorities and take airline costs into account as well, such as crew pay, hotels, and meals.

Using data to identify potential or existing crew issues can help busy airlines stay on schedule.

Disruptions or miscommunications in an airline's crew scheduling plan can drastically impact on-time performance, operational efficiency, costs, and overall customer satisfaction. Why risk crew scheduling issues when you can anticipate, prepare, and resolve these problems before they impact flights?

Reduce crew disruption costs by quickly repositioning schedules

Minimize the propagation of disruptions due to crew scheduling issues

Improve crew satisfaction and on-time performance

Application capabilities

Crew Optimization uses real-time airline data to detect and display crew irregularities to crew managers and schedulers.

- Crew legality
- Flight activity
- Open pairing
- Overcovered flight
- Pairing discontinuity
- Pairing misconnects
- Uncovered flights



Possible outcomes

The application generates multiple solutions you can compare across different scenarios. This feature allows you to visualize key factors that help determine which solution best fits the needs of your airline's network.

Why choose GE Aerospace for your network operation?

Beyond Crew Optimization, GE Aerospace, Software offers an ecosystem of value that enables airlines to create the most efficient network discipline. Not only does our Network Operations platform offer a turnkey technology solution that provides global commercial airlines with real-time disruption management and operational optimization, but it's backed by a trusted business process. Enjoy seamless change management, an effective partnership, and implementation and advisory services to ensure your airline is getting the most out of the solution.