



Jeppesen Solver

Complex flight and crew schedule optimization made simple.

Solver is a powerful cloud-based optimization engine for military aviation that works with any flight scheduling system to solve complex scenarios in minutes. It uses a comprehensive set of static and dynamic rules, plus your scheduling data, to produce an optimized schedule that adheres to FAA/EASA regulations, operational preferences for aircraft and crew utilization, and customer preferences.

Solver simplifies the hard work of building and coordinating flight schedules for military aircraft operations. On-demand flights are routinely booked, changed or cancelled. Unexpected disruptions like aircraft mechanicals, crew availability, airport closures, adverse weather and mission changes all consume valuable resources from scheduling staff. Solver helps your air operations center staff work efficiently and stay focused on your needs rather than manually dealing with scheduling issues and other disruptions.

With the click of a button, Solver optimizes flight schedule data and returns solutions that offer many benefits.

- ✔ Increased fleet utilization
- ✔ Reduced repositioning and empty legs
- ✔ Rapid recovery from disruptions
- ✔ Reduced need to reschedule missions
- ✔ Increased mission capability
- ✔ Increased crew/staff satisfaction
- ✔ Reduced operating costs
- ✔ Reduced delayed missions

Solver can help many kinds of military aviation operators.

- ✔ Cargo operations

- ✔ Dynamic contingency operations
- ✔ Training operations
- ✔ VIP support fleets
- ✔ Helicopter fleets

Solver's ease-of-use and fast processing time allows it to be used during all phases of your flight scheduling process.

The **planning** phase starts two or more days in advance and benefits from Solver optimally scheduling crew and aircraft. Flights can be planned with a higher degree of confidence that aircraft and crew availability is accurate, which results in increased mission deployment.

The **preparation** phase occurs one day in advance and Solver helps to refine and ensure the best use of all assets and resources. Flexibility built into Solver's parameters allows scheduling staff to focus the optimization engine on company-defined priorities

such as priority of cargo movement, delivery phasing, or crew time off schedules.

The **recovery** phase occurs on the same day when a schedule disruption takes place. Time is critical to recover from an unplanned event with minimal impact to operations. Solver returns feasible recovery options in seconds allowing staff more time to focus on higher priority requirements and other ongoing flight operations.

The cloud-based, standalone architecture of Solver allows it to work with data imported from any flight scheduling system.

Whether your flight management department uses a commercially available scheduling system, a custom in-house developed system or a simple spreadsheet, Solver will optimize the imported data and return the best possible schedule solutions based on a comprehensive set of static and dynamic rules.

- ☑ Static rules
 - FAA
 - EASA
- ☑ Dynamic rules
 - Over 1,000 configurable rules that can be customized to meet the specific needs and preferences of your operation
 - Duty and flight time limitations
 - Crew scheduling rules
 - Crew relocation policies
 - Trip prioritization policies
 - Aircraft upgrade policies
 - Cargo handling preferences

[Learn more about what we offer.](#)

Find out how Solver can optimize your operations by contacting your account representative.