



maximize your overall fleet & network profitability

# PlanUnified™

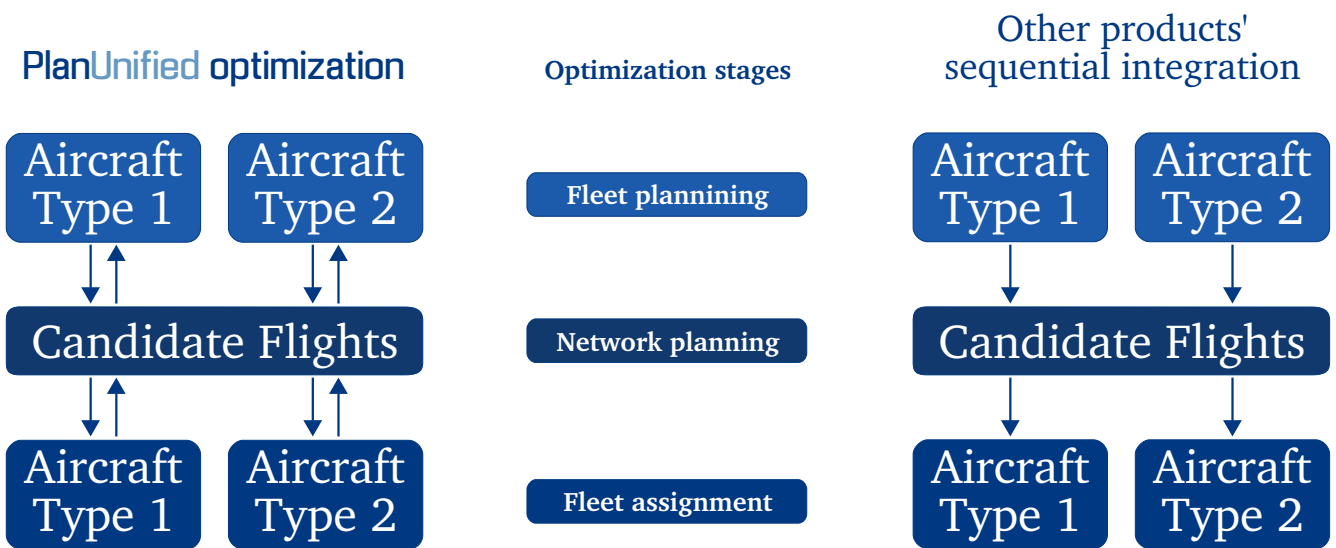
## How does PlanUnified increase your profitability?

Airline planning is one of the most complex problems, involving multiple conflicting decisions that all need to be optimized simultaneously. Despite this, other planning products separate these conflicting decisions into different subproblems, ignoring their interactions.

PlanUnified changes this. It is the only product with Unified Optimization of fleet planning, network planning, and fleet assignment, accounting simultaneously for their constraints, costs, and revenues.

This is a major improvement when you consider how they interact. Network planning selects the routes and flight times that maximize profit from passengers. However, the times, available seats, and flight costs ultimately depend on the fleet selection.

Using Unified Optimization, PlanUnified obtains the overall optimum for both the network and fleet decisions. This **increases profits to almost double that of other products.**



The above hold true for any number of fleets an airline may have



# unique benefits

## Profit increase doubled

PlanUnified's Unified Optimization increases profit by up to 9%. This profit increase is almost double that offered by other systems, which perform network planning and fleet assignment sequentially, one after the other, disregarding their interaction.

## Improved route and hub optimization

PlanUnified's Unified Optimization designs the flight network of all fleet simultaneously, maximizing the overall flight connectivity:

- in the airline's network,
- in the network of its codeshare partners,

and therefore substantially improves your route optimization.

In a similar manner, PlanUnified's Unified Optimization can boost your hub structure, helping you to:

- design new hubs and optimize connections,
- re-design existing hubs and minimize bottlenecks.

## Overall control of network planning and fleet decisions

PlanUnified offers a unique global view of network planning and fleet decision making. The network planning component maximizes profit by selecting optimal: markets to serve, frequencies, and arrival and departure times. The profit is computed as passenger revenue minus the fleet costs. The passenger revenue is based on forecasted demand and market share considering the competition. The costs are based on the fleet assignment decisions.

## Superior forecasting of passengers and competition

PlanUnified uses an advanced probabilistic logit model to analyze passenger choices (e.g. time, price, and airline preferences) and forecast demand, while considering the effects of competing flights. The combination of this powerful forecasting with the Unified Optimization make PlanUnified the leading fleet and network planning tool in the market.

## Unified constraint satisfaction and cost consideration

Due to its Unified Optimization, PlanUnified is the only system enabling you to simultaneously account for the constraints and costs of:

- **Aircraft**, such as initial and final positions, daily availability, utilization limits, fleet mixing, maintenance costs and constraints, number of seats per compartment, range, block and turn times, ownership and leasing costs, en-route charges, and fuel and oil costs.

- **Airports**, for example landing fees as well as slot, runway, and curfew constraints.

- **Passengers**, including revenue from origin and destination (O&D), minimum and maximum connection times, spill, and recapture.

- **Partners and Competitors**, by modeling alliances, codeshare, and interlining, Special Prorate Agreements (SPAs), and fares.

You can easily modify all of these constraints and further experiment with various changes in order to evaluate different scenarios and their impact on your schedule and profits. Additional constraints can also be tailored to your individual needs.

## PlanUnified: a SchedulAir optimizer

PlanUnified is an optimizer for Decisal's system, SchedulAir. PlanUnified provides additional powerful features, modern tools, and advanced functionality for network planning. For more information please visit our website: [www.SchedulAir.com](http://www.SchedulAir.com)

## Contact Decisal

1 Putney Bridge Approach, London SW6 3BQ, UK

Tel.: +44 (0)800 011 24 31

E-mail: [PlanUnified@decisal.com](mailto:PlanUnified@decisal.com)

Website: [www.decisal.com](http://www.decisal.com)

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