

Product **Blueprint**



Altitude BLISS



**Bidline Integrated
Scheduling System**



North American airlines using the bidline process constantly struggle to maintain crewmember quality of life while keeping in line with the organization's need to operate efficiently. In order to meet this difficult goal, airlines are forced to seek homegrown solutions and multi-vendor systems which result in an overwhelmingly time consuming and complex process.

Altitude BLISS automatically manages all aspects of the bidline process while promoting crewmember satisfaction and building the highest quality of lines.

Automatically Manages The ENTIRE Bidline Process

Designed to solve planner and crewmember frustrations, *Altitude* BLISS is a groundbreaking system that **automatically manages the entire bidline process** while taking contractual rules and regulations into account. For the first time, **the bidline process can be customized** to meet crewmember preferences, policies, culture, and strategic initiatives. With an emphasis on quality of life and operational efficiencies, *Altitude* BLISS creates the highest quality of lines in a unique approach that meets both crewmember and airline needs. The bidding process has been simplified through a web-based interface that allows bid packages to be sorted according to desirability criteria. Planners, crewmembers, and airline organizations will benefit from a seamless process that allows for accurate and centralized data that minimizes the risk of human error.

You Control The Quality

With increased pressure to keep up with a demanding and complex scheduling environment, planners are always working to overcome limitations in the bidline process. *Altitude* BLISS was created to address the industry's need for a more simple and flexible system that could harmoniously maximize quality of life and lines.

Altitude BLISS empowers airlines with its revolutionary approach to the bidline process where for the first time, the entire bidline process can be managed entirely from start to finish using *Altitude's* renowned optimization technology. This unique approach enables airlines to build the highest quality of lines, faster than ever, given crewmember preferences, rules, policies, and internal growth strategy. Featuring a **user driven line generator**, planners can interact and make changes to the line generator on their own. This allows planners to make changes according to the quality criteria they specify. The possibilities are endless when you control the quality. *Altitude* BLISS allows for the **intelligent resolution of line conflicts** based on airline specific policies, eliminating the immense task of manually seeking a solution. If applicable to the airline, it also has the ability to automatically create personalized secondary lines taking the crewmember's personal preferences into account.

The *Altitude* BLISS approach to the bidline process allows airlines to remain competitive by keeping operational costs at a minimum and quality of life a priority.



Driven by line quality

Key Components for Optimal Efficiency

01

Graphical Planner Interface

The Graphical Planner Interface allows the planner to perform monthly scheduling tasks and launch the solver for the automatic generation of lines. The interface features a fully graphical line and schedule editor, enabling the planner to resolve activity conflicts, perform manual pre-assignments or modify the lines built by the line generator.

02

Graphical Crew Interface

The *Altitude* Crew Interface is a web-based interface used by crewmembers to submit their bids. Based on an extensive set of criteria, the interface also allows crewmembers to sort their bid packages in order of desirability, completely eliminating the time consuming task of having to manually sort through bid packages.

03

Line Generator

The line generator is the *Altitude* BLISS component that enables the automatic generation of lines, optimally complying with quality criteria, while taking scheduling rules, civil aviation and contractual rules, and operational constraints, such as reserve coverage needs into account. Built to create the highest quality of lines, the line generator is more flexible and powerful than ever as planners can interact with it through user driven line building strategies.

AD OPT's propriety optimizer, GENCOL, is a state of the art column generation technology that creates the highest quality lines in the *Altitude* BLISS Line Generator.

04

Auto Award and Conflict Resolution

The Auto Award and Conflict Resolution module allows for lines to be awarded automatically, along with the intelligent and automatic resolution of conflicts according to company rules and policies.

05

Optional VTO Line Generator

The optional VTO Line Generator is available to airlines that support personalized secondary lines. The VTO line generator is the *Altitude* BLISS component that enables the automatic generation of personalized secondary lines, optimally taking personal preferences, scheduling rules, civil aviation and contractual rules including seniority, and operational constraints such as reserve coverage needs into account. The VTO Line Generator can be purchased separately.

Altitude Suite of Products

The *Altitude* BLISS system is a solution of the *Altitude* suite of crew planning, optimization and management solutions for the airline industry. With some of the most recognizable clients in the world, *Altitude* provides customized crew management solutions for small, large and/or complex airline organizations, enabling them to enhance their planning capabilities, control operational costs and significantly improve employee quality of life by giving crewmembers more control over their schedules.

Through innovative thinking, progressive research and development in optimization technology and a thorough understanding of the airline industry, *Altitude* has set the standard in crew management solutions.



As the world's leading workforce planning solutions provider, AD OPT Technologies develops software solutions that serve to improve employee quality of life, while enabling their organizations to improve their operations management.

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