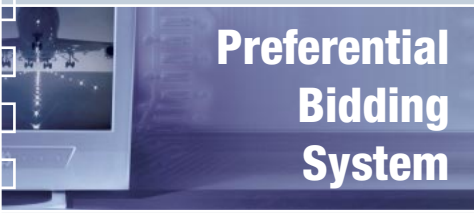


# Product **Blueprint**



**Altitude PBS**



**Preferential  
Bidding  
System**



Crewmembers play an important and pivot role within each airline organization, acting as ambassadors for their respective airlines by providing safe, passenger-driven travel experiences. Caught in a balancing act, airlines recognize the need to ensure crewmember quality of life but must also take operational costs, rules and regulations into consideration – resulting in a strenuous and remarkably time-consuming task.

*Altitude's crew management solutions strike the right balance, by satisfying crewmember work preferences while facilitating an automated scheduling process for the airlines.*

## **Strike the Right Balance!**

AD OPT designed the *Altitude Preferential Bidding System (PBS)*, a comprehensive rostering/scheduling system, to create crewmember (cockpit and flight cabin) monthly schedules by taking crewmember preferences, collective agreements, and pre-assigned ground tasks into account. *Altitude PBS* gives crewmembers greater control over their schedules and work lives, while ensuring optimal crew management.

## **Customized To Your Specifications**

With increasingly complex organizational structures and workforces, *Altitude PBS* provides a customized solution that directly responds to your requirements, understanding the dynamic issues involved within each organization.

By allowing crewmembers to tailor their duty around their individual needs based on a wide variety of personal bid options, *Altitude PBS* allows for greater crewmember participation in the scheduling process. With **over 100 different bid options** grouped into appropriate categories like time off, pairing characteristics and quality of life; airlines and crewmember associations can select which bid options they want to feature in their version of *Altitude PBS*, allowing them to benefit from a fully customized solution, tailored to fit their operations and designed to suit their needs.

## **Forecasting Capabilities**

The ability to quickly assess different scenarios and immediately react to changes can enhance planning capabilities and flexibility – delivering your airline a much-needed competitive edge.

## **Strict Seniority or Fair Share**

*Altitude PBS* is available in either strict seniority or fair share contexts. For strict seniority, the *Altitude PBS System's* global approach takes into consideration crewmember seniority with the objective of **maximizing each crewmember's satisfaction**. In a fair share context, every crewmember is treated fairly and equitably, while maximizing **global satisfaction among all crewmembers**.

Based on an open architecture in a network environment, *Altitude PBS* is a stand-alone solution or can be integrated with other *Altitude* systems.



## **Maximizing Crewmember Satisfaction**

## Key Components for Optimal Efficiency

01

### e-Scheduling Module

*Altitude's* e-Scheduling Module is a Web-based crew interface used by crewmembers to express their preferences through various bid options. The e-Scheduling Module features a **weighted approach to bidding**, enabling the crewmember to indicate the degree to which the preference is desired, and a **personal calendar** that can be used as an agenda. Weighting is easily performed using the HI, MED and LOW qualifiers while the full 1 to 1000 range of values is available to those crewmembers who want to refine their bid.

02

### Graphical Planner Interface

The Graphical Planner Interface allows the planner to perform monthly scheduling tasks and launch the solver for the automatic generation of personalized crew lines. The interface features a fully **graphical schedule editor**, enabling the planner to perform manual pre-assignments or modify the schedule generated by the Solver, and a **capacity analysis tool**, providing a visual assessment of crew availability.

03

### Solver

The solver is the PBS component that enables the automatic generation of schedules, optimally complying with individual crewmember preferences, while taking pre-assigned activities, scheduling constraints, civil aviation and contractual rules, and operational constraints, such as reserve coverage needs into account.

AD OPT's proprietary optimizer, **GENCOL**, is a state of the art column generation technology that features a **global approach** to generating schedules. This approach considers the entire category over the entire planning horizon, providing crewmembers with **optimal schedules** – enhancing employee satisfaction and improving organizational efficiencies.

## Altitude Suite of Products

The **Altitude Preferential Bidding System (PBS)** is a core 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.

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AD OPT



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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