

Altitude PBS



Crewmembers play an important and pivotal role, acting as ambassadors for the airline in providing safe, passenger-focused travel experiences. Airlines must strike a balance between satisfying their quality of life needs and the organization's business objectives, operational costs, rules, and regulations. Managing these sometimes-competing needs can be a challenging and time-consuming task.

Strike The Right Balance

Altitude PBS (Preferential Bidding System) is a comprehensive rostering/scheduling solution used to create personalized crewmember (cockpit and cabin) monthly schedules that take crewmember preferences, collective agreements, and pre-assigned ground tasks into account. Altitude PBS provides crewmembers greater control over their work lives, while ensuring that airlines meet their operational objectives such as reserve coverage and open time control.

Customized To Your Specifications

With an airline's increasingly complex organizational structure and workforce, Altitude PBS provides a customizable solution that directly responds to your requirements and understands the dynamic issues within your organization. With over 100 different bid options to select, grouped into appropriate categories - like time off, pairing characteristics and quality of life - airlines and crewmember associations can select the bid options required, providing a fully customized solution designed to fit your operations.

Strict Seniority Or Fair Share

Altitude PBS is available in either strict seniority or fair share contexts. For strict seniority, Altitude PBS's global approach respects crewmember seniority with the goal 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.

Advanced Forecasting Capabilities

With Altitude PBS, planners have the ability to quickly assess different scenarios and immediately react to changes, dramatically enhancing planning capabilities and flexibility — delivering a valuable competitive advantage to your airline.

Planners can perform monthly scheduling tasks and launch the solver for the automatic generation of personalized crew lines. The planner interface features a fully graphical schedule editor, enabling the planner to efficiently perform all pre-award tasks, such as pre-assignments, training allocation, or any last minute updates of a crewmember's activities. The interface also features a capacity analysis tool that provides a visual assessment of crew availability. With Altitude PBS' **Solution Analysis Tool (SAT)**, the planner can answer queries such as why a crewmember did not obtain a specific pairing.

GENCOL, a proprietary optimizer, 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 optimized schedules that enhance employee satisfaction and improve organizational efficiencies.


Crewmember Benefits

- Accurate and transparent bidding process
- Ability to express preferences
- Improved crewmember lifestyle
- Web access from anywhere, at anytime
- Access to communications from planners
- A Bid Analyzer allows crewmembers to validate bids against existing pairings providing powerful “what-if” analysis

Three Bid Models To Choose From

Depending on your airline’s organizational structure and crewmember needs, you can select one of three Altitude PBS bid models: **weighted** and **automatic mode** or **preference set**. The Weighted Approach enables crewmembers to indicate the importance of each preference to them. Weighting is easily performed using HI, MED, and LOW qualifiers in the Automatic mode, while more seasoned users can use the full 1 to 1,000 range of values available to crewmembers who want to refine their bid. The Preference Set Approach enables crewmembers to specify and rank multiple sets of preferences. Bids are grouped together into preference sets and each preference set is ranked in priority order, where the solver’s goal is to search through virtually all combinations to award the highest possible preference set.

Regardless of the selected approach or bid model, the solver’s core objectives are to maximize each crewmember’s satisfaction, strict respect of seniority or fairness, and to respect all business objectives.

METHODS	Weights Crewmembers express preferences by assigning weights - distributing points across different bid options	 Automatic Mode Crewmembers express preferences by evaluating options: <ul style="list-style-type: none"> • HIGH: Must Have • MED: Need to Have • LOW: Nice to Have 	Preference Set <ul style="list-style-type: none"> • Crewmembers enter several priority requests to form a set of preferences • The solver searches through virtually all combinations to award the highest possible preference set
BENEFITS	<ul style="list-style-type: none"> • Crew can enter more detailed and descriptive preferences • Very precise ranking • Can generate a Reasons Report that explains results 	<ul style="list-style-type: none"> • Simple to use • Easy to understand • Allows for quick bidding • Can generate a Reasons Report that explains results 	<ul style="list-style-type: none"> • Easy to understand with no number crunching required • Bids are prioritized • Can generate a Reasons Report that explains results

AD OPT pioneered the development of the preferential bidding approach with a large number of successful implementations across North America. Based on advanced optimization technology, Altitude PBS is an innovative solution that seamlessly integrates with existing systems.

THE AD OPT SOLUTIONS SUITE

AD OPT a comprehensive crew planning solutions provider, delivers powerful insight for result-driven airlines. With AD OPT, airlines can link their crew planning activities to strategic objectives in order to determine what is impacting productivity, profitability, and crew satisfaction – then take decisive action to achieve operational excellence.

The AD OPT solutions suite delivers enhanced operational flexibility and cost control. It enables you to automate and optimize your flight operations processes as they relate to strategic planning, fleet and flight planning, and manpower planning.



Experts at Improving the Performance of People and Business™

Kronos Canadian Systems Inc.
AD OPT, a Kronos Division
3535 Queen Mary Rd, Suite 650,
Montreal (Quebec) H3V 1H8 Canada
Tel.: (514) 345-0580 / Fax: (514) 345-0422
Email: ad-opt@kronos.com

www.ad-opt.com

