Altitude Pairing

Altitude Pairing, is a dynamic and flexible system that builds cost-effective, crew friendly pairings, maintaining full compliance with company rules, operational requirements, company cultures, specific sets of activities, contract agreements and government regulations.

A trusted and recognized pairing solution, Altitude Pairing is based on advanced optimization technology that seamlessly integrates with existing systems to provide airlines with an immediate and sustainable ROI.

Facts

1. Build roster-friendly pairing, meeting all rules, regulations and fatigue targets
2. Balance productivity, operational constraints and cost performance
3. Save up to 15% of crew costs
Advanced Pairing Tools

Altitude Pairing provides a large set of planning functions that help planners create operationally robust solutions.

Altitude Pairing’s core functionality is designed with flexibility in mind, knowing that in the “real world,” disturbances often occur even after pairings are published.

To help alleviate such events, Altitude Pairing provides:

• Connection times by time of day or by sector pairs: planners can use the feedback from operations to plan for possible delays at specific problem stations
• “Line Friendly” constraints: from daily crew availability to trip mix, planners can create pairing solutions that can easily be built into lines/rosters while providing cost and operational efficiency
• Automatic cockpit crew augmentation for long haul problems
• Dynamic templates guide results by allowing planners to restrict, impose, and/or suggest flight combinations or station restrictions to fit operational needs

Forecast What-ifs with Confidence

In an effort to meet deadlines, planners must also forecast and plan for future occurrences. Altitude Pairing’s extensive “what-if” capabilities allow planners to focus on developing long-term strategies, including whether to explore new scenarios, such as opening a new base, or to analyze the effects of union negotiations.

Proactive Approach to Crew Pairing

Altitude Pairing can be configured using customized scripts in accordance with your pairing generation strategies, so you can promptly react to changes.

If additional changes to the schedule occur, the solution can automatically be repaired or re-optimized according to the new schedule, providing your organization with a proactive approach and making the planning department more efficient.
A Complete Approach to the Entire Planning Process

- Using the feature rich, user-friendly Graphical Interface, planners can create pairings, generate duty periods, and filter trips and legs based on a wide range of criteria.
- The optimization solver automatically generates the most efficient pairings, taking hotel costs, per diem rates, deadheads, as well as business and contractual rules into consideration, providing optimal pairings in a reasonable timeframe. The solver can create a monthly solution directly without the use of the traditional daily/weekly approach, providing for better robustness and cost savings.
- A complete audit trail system stores all modifications to all data items, along with user comments, allowing for any type of post-production audit to take place.
- Because all changes are automatically saved and easily managed, a previous state can be recovered at any time allowing for comparisons between various outcomes to evaluate the best possible solution.
- GENCOL, a proprietary optimizer, is a state-of-the-art column-generation technology that uses a global approach to generate schedules. This approach considers the entire set of flight legs over the entire planning horizon, delivering optimal, cost-effective pairings.

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.