

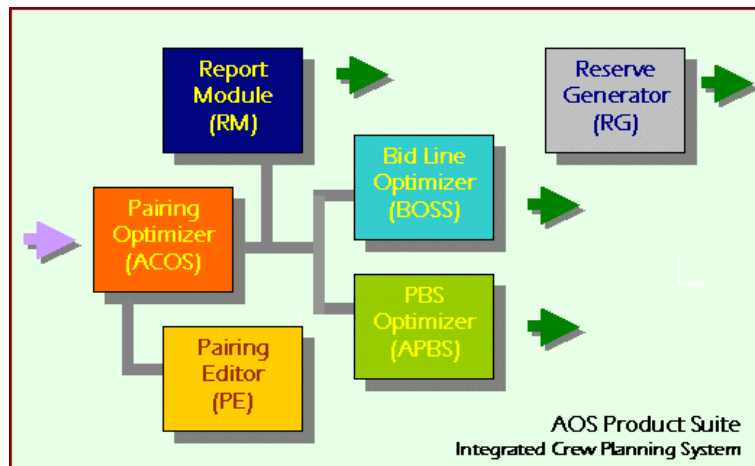


Advanced Optimization Systems, Inc. (AOS)

Integrated Crew Planning System (ICPS)

Complete Crew Planning Solutions for Airlines

Advanced Optimization Systems (AOS) offers a complete product suite, Integrated Crew Planning System (ICPS), to resolve the crew planning challenge. All products are completely integrated. Starting with marketing schedules and manpower requirements including positions and languages, the ICPS solves the pairing optimization problem, constructs lines conforming to either traditional Bid Lines or Preferential Bidding, generates reports (hotel letters, meals, limo pick-ups, deadhead reports, etc.), and loads the solutions directly into the customer's existing crew management system.



- ACOS, Automated Crew Optimization System. Pairing Optimizer.
- RM, Report Module.
- PE, Graphical Pairing Editor.
- BOSS, Bid Line Optimization Software System. (With Graphical Line Editor)
- APBS, Advanced Preferential Bidding System. (With Graphical Line Editor)
- RG, Reserve Line Generator.

ACOS:

- * Minimize pairing costs (credit, TAFB, deadheads, and hotels).
- * Provide balance of cost & quality.
- * Solve domestic, international, and augmented pairing problems and comply with government regulations and company/union contracts.
- * React to the last minute schedule changes (daily/weekly/fully-dated) with super fast core algorithm.
- * Automated and flexible.

RM:

- * Generate crew readable pairing report with scheduled crew meals.
- * Produce consolidated hotel letters, limo pick-up schedules, and dead-head reports.
- * Easily maintained hotel file.
- * Export files to downstream systems.
- * Fully automated process.

PE:

- * Present pairings on GUI.
- * Provide searching/sorting of pairings and legs.
- * Real-time legality evaluation.
- * Automatically recover minor schedule changes.
- * Deliver sophisticated functionality while easy to use.
- * Ability to expand daily solution to weekly, and weekly to fully-dated.

BOSS:

- * Produce bid lines with desired qualities defined by the user.
- * Optimize on cadence, purity, report/release time, duty on/off in a work block, weekday/weekend duty, as well as pairing mixture.
- * Cover all pairings (can be relaxed to have open time).
- * User control quality preferences.
- * Easy-to-use with auto generation process and graphical line editor.

APBS:

- * Provide the highest overall crew satisfaction.
- * Consider all crewmembers' preferences and company goals by global optimization.
- * Submit preferences and query pairings by web-interface.
- * No swapping/shuffling/stacking/weighted algorithm.

RG:

- * Generate minimum reserve lines by inputting exact reserve crewmembers needed at each date.
- * Comply with reserve line rules, patterns, golden off days, preferences, etc. defined by the user.

AOS has developed and implemented crew optimization programs and solutions for airlines since 1992. AOS is the leading provider of automated pairing and line optimization software for major airlines in North America.

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