Navtech offers robust and fully transparent systems designed and implemented for airlines and their crew members. We provide dynamic optimization to analysts, crew planners and bidders. Users of the Pairing Optimizer and PBS system get quick insight into how schedules and pairings are built and can adjust accordingly.

**Navtech Pairing Optimizer**

Navtech’s Pairing Optimizer has a fully configurable, state-of-the-art, large-scale optimization engine that produces fully operational, highly optimized crew pairings. It generates pairings that satisfy all governmental, industry and company policies, and individual scheduler constraints—whether compulsory or discretionary. With the Optimizer, airlines can define a cost for each rule, constraint, preference and element, and it can be made to focus on any element or mixture of elements, not just the lowest financial expense. It can be customized for a wide range of possible airline-specific options.

- **immediate results**: adjust parameters and correct issues as the run progresses
- utilizes multiple cores and threads - configured to run on single, dual or quad core
- easy to install and runs on an analyst’s PC

**Navtech PBS**

Automated Scheduling: The PBS Scheduler provides administrators with the tools to manage all of the information pertaining to crewmembers and the bid period. It contains all of the airline’s rules and the rules agreed upon by management and crewmembers.

**Desktop PBS Bidder and Web PBS Bidder**

Both versions of the PBS Bidder have easy-to-use and learn interfaces that let crewmembers customize their bid requests according to individual preferences. Crewmembers can use either version to submit a bid as they work interchangeably with each other. Each crewmember receives detailed pairing information and a report explaining the results of each bid preference including why the bid preference was or wasn’t awarded.

- enhanced Reserve Modules give management greater control of their resources while crewmembers get to bid for the schedule they want
- training module fully integrated with the Navtech PBS System
- specialized reports for each crewmember details the results of each bid preference
- features in the Desktop PBS Bidder let crewmembers analyze their bid before they submit it
Partners in success

Navtech works hard to create and values the close connection it has with each airline that use the Crew Planning suite of software. The Pairing Optimizer and PBS systems are constantly evolving to meet the needs of the airline industry. Enhancements come from our Research and Development department along with input from our customers. Updates on new features in new releases are clearly communicated and focused on meeting the needs of everyone involved. Quarterly conference calls and a yearly focus group provide customers with the opportunity to learn from their peers, provide feedback and steer new development.

Other Navtech Offerings

**Aircraft Performance Solutions**

Navtech offers leading edge, ISO 9001:2000 compliant, Aircraft Performance systems, with flight safety and customization in the forefront. Our products allow operators to not only comply with regulatory requirements but also to maximize payload through optimized calculations. Aircraft Performance systems, available in both office and EFB versions, include: maximum take off and landing weight calculations, Weight & Balance calculations, a World Wide Airport Obstacle Database, Engine Failure and Climb Out Procedures, and Drift-Down and Decompression Procedures.

**Charts**

Navtech Charts offers both traditional and EFB versions of aerodrome and enroute charts, available to the professional pilot as the prime navigation aid on board the aircraft. Through the combined experience from our customers, Human Factors Specialists as well as our own vast experience in charting, the new chart specification provides an efficient, reliable and user-friendly chart product.

**Electronic Flight Bag**

Navtech partners with any workable combination of EFB hardware and software to provide a complete solution for our customers. We have numerous relationships with worldwide providers of EFB hardware and software and can create an EFB package by selecting our partners that best meet customer requirements. Alternatively, we can work with customers’ providers and integrators of choice. In addition, Navtech is working with airframe manufacturers and FMS producers to assure compatibility and obtain certifications where required.

**Flight Planning**

Navtech Flight Plan (NFP) provides complete control over managing mission critical resources. Our dispatch and flight planning software gives users complete control over their flight plan to reduce operating costs, increase productivity, and maximize safety. An updated, browser-based GUI allows the user to more easily take advantage of our dynamic route construction functionality and optimized fuel burns routines.

**Navtech Navigation Data**

Navtech’s Navigation Data services draw on one of the world's largest aeronautical databases to support a wide range of electronic navigation needs. Our services have an established reputation for accuracy, reliability, flexibility, and dependability. This data is updated and maintained in accordance with the 28-day AIRAC update schedule and the database occupies 2.1 million records in total. The entire operation is supported by a comprehensive suite of data validation and relational quality assurance programs which have been built around the requirements of EUROCAE ED76/RTCA DO 200A.