

OSYRIS

Queue Management



Barco's Queue Management software is the industry's first complete and proven tool set for an integrated air traffic arrival, departure and flow management, driven by the specific needs and requirements of Air Navigation Service Providers and Airspace Users worldwide.



Smart operators, smooth flights

Barco's Queue Management software has been designed to support operators in meeting the increasingly demanding requirements for safety and efficiency of traffic flow and to enable various air traffic stakeholders (airlines, airports, Air Navigation Service Providers) to ensure smooth traffic flow and reduce delays.

Higher efficiency, smaller footprint

Barco's Queue Management software helps increase airport and airspace capacity and reduce operator workload. By making optimum use of the available resources to make flight operations more efficient, to improve flight profiles and avoid holding patterns, ecological problems like pollution and noise are reduced to a strict minimum.

Secure investment, solid return

As every airport and airspace has its specific needs and requirements, each Queue Management software component is highly adaptable and interoperable. This modular architecture allows for a phased approach to achieve a fully dedicated queue management solution tailored to the customers' needs, ensuring operational and cost efficiency at all stages.



Collaborative Flow Manager is a next-generation tool that is further optimizing the management of aircraft delays, ensuring they are incurred on the ground and not in the air. It allows us to be proactive in managing our network to reduce the impact of delays and also assign priorities to better manage the needs of our passengers connecting to other flights.

Bob Fletcher, Head of Operations Support at Air New Zealand



Barco's Arrival Manager software meets all technical and operational requirements as well as the Safety Management and Quality Assurance objectives. Avinor judged Arrival Manager the most user-friendly and the most mature arrival management software on the market.

Kristian Pjaaten, Project Team Manager at Avinor

Why use Queue Management software?

- Proactive network management to handle delays efficiently and in a timely manner
- Active advice generation for ATC controllers
- ATC workload reduction through improved sector coordination and centralized planning
- Interoperable tools for pre-tactical and tactical tasks
- Highly adaptable to meet local requirements and needs
- Reduced CO2 footprint through efficient flight profiles and ground delays
- Improved utilization of airport and airside resources

Proven Queue Management components

Arrival Manager

Barco's Arrival Manager (AMAN) software helps air traffic controllers handle incoming flights more efficiently. The system offers a set of advanced features like active advice generation, integration of short haul flights and What-If Probing. Arrival Manager distributes this information to all working positions and other ATM planning systems. Finally, flight operations become much more efficient and holding patterns are reduced to a minimum.

Departure Manager

Barco's Departure Manager (DMAN) software proposes conflict-free departure sequences based on selectable planning and optimization strategies to guarantee maximum outbound punctuality. The system offers advice on when the next ATC clearance or instruction should be given in order to reduce runway queues and operator workload. Offering a wide range of functionality, Departure Manager also provides Airport Collaborative Decision Making (A-CDM) compliant Pre-Departure Sequences and supports mixed mode operations.

Surface Manager

Barco's Surface Manager software, based on a third party product, issues taxi instructions to guide aircraft safely and most efficiently to and from the runway. Surface Manager supports ground operations and A-CDM, based on Barco's Arrival Manager software to predict accurate in block times. Additionally, Surface Manager offers precise taxiing information to Barco's Departure Manager software to offer an optimized departure planning.

“Barco's Arrival Manager is another step on the path for NATS to improve efficiency and cut fuel burn and emissions. This tool will be invaluable to controllers in charge of some of the most complex airspace in the world over the London area airports. It will integrate with our operational systems to give us the means to smooth the flow of aircraft, reduce stacking and improve delay.

Michael P. Stoller, Engineering and Programmes Director at NATS



Departure Metering

Barco's Departure Metering software helps synchronize departing flights from different airports in order to avoid congestion at specific merge points or route segments. Departure Metering is perfectly suited for integration with Barco's Departure Manager software to optimize departure schedules at each airport. Combined with Barco's other Queue Management components, Departure Metering helps integrate departure, arrival and transit traffic at dedicated coordination points.

Flow Management

Barco's Collaborative Flow Manager (CFM) is an automated internet-based application that enables airlines to jointly agree on priority flights and to manipulate their fleet in real time, matching demand to capacity and reducing in-flight delays. Collaborative Flow Manager exchanges data with airports, which enables them to see all inbound traffic, with estimated time on arrival and all other information updated in real time from the air traffic management system.

Barco's Air Traffic Flow Management (ATFM) software helps visualize capacities and demands of ATC resources and generates warnings if imbalances are predicted. Besides flight plan estimates, the software uses queue management planning results to predict the demands for the various airspace resources.

About Barco

Barco provides a full breadth of proven products and services that support controllers, operators and aircrews in making air traffic safer and more efficient. Always keeping an eye on the future, Barco provides its customers today with innovative components for the advanced working positions of tomorrow.

Barco's full range of component solutions extends from sensor interfacing and information distribution over information processing and visualization to recording, archiving, playback and system management. Based on years of experience, Barco can provide a wide scope of services from consultancy on visualization architectures to after-sales maintenance.

Barco combines its worldwide experience in air traffic management and its commitment to advanced research and development to deliver optimum price/performance technical solutions. Moreover, Barco's personalized approach ensures that its solutions are tailored to your specific needs.

Barco shares your strategic view, understands the operators' needs and technical risks, and manages the complete product life cycle from user requirements to training, commissioning and lifetime support. This results in low-risk solutions for your long-term commitments.



M00430-R01-0911-PB September 2011

Barco is an ISO 9001 registered company. The information and data given are typical for the equipment described. However any individual item is subject to change without any notice. The latest version of this product sheet can be found on www.barco.com.

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