

ORTHOGON STAND ALLOCATION

Managing high traffic volume

Large, capacity strained airports need strong, dynamic and on-the-day optimization tools.

WHAT IS ORTHOGON STAND ALLOCATION?

Orthogon Stand Allocation addresses stand management at high traffic volume airports that deviate frequently from planned schedules. The solution improves stand utilization resulting in better airport efficiency and increased capacity.

A scientific optimization algorithm dynamically assigns aircraft to matching airport stands under consideration of airport-specific engineering and business rules, airport initiatives like CDM Milestones and live flight data. The solution uses built-in conflict management to automatically solve stand conflicts and provides alerts to the operator.

INNOVATIVE AND USER-FRIENDLY

Orthogon Stand Allocation's intuitive HMI supports user interactions and provides interconnected views for optimized stand management. It uses georeferenced Airport View displays to show stand occupancy on an airport map. There is also a time referenced Allocation View that illustrates allocations in a Gantt Chart style. Additional views can provide supplemental flight and stand information with alerts at a glance.

All views built into the solution support dynamic flight handling with drag-and-drop functionality. This allows the system to be adjusted with ease.

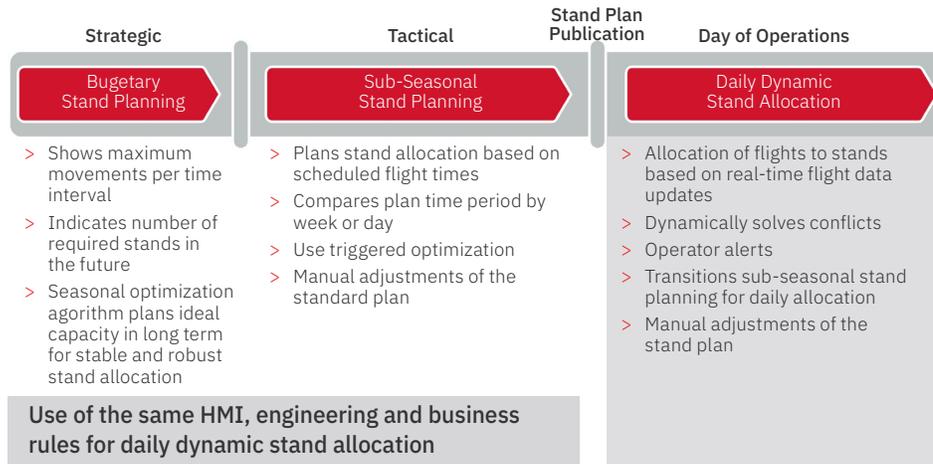


Solves stand related airside disruptions

BENEFITS

- > Enhances situational awareness through innovative Human Machine Interface (HMI) with georeferenced interconnected views
- > Prevents airline service level agreement violations for airport cost savings
- > Improves stand usage through dynamic, event-driven optimization algorithm
- > Reduces operator workload by up to 80%
- > Supports Airport Collaborative Decision Making (A-CDM) by keeping flights at the stand during airside congestion

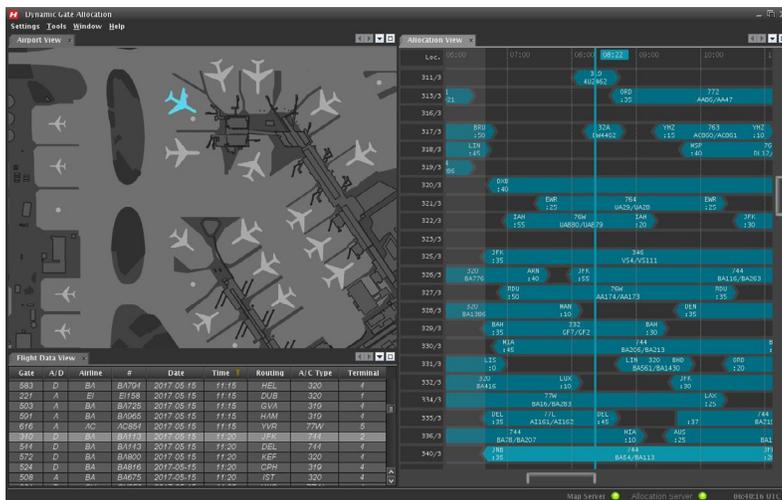
FROM STRATEGIC PLANNING TO OPERATIONS ALLOCATION



FEATURES

- > Scientific Optimization: algorithms balance the need for fast dynamic daily allocation with robust seasonal stand planning
- > Conflict Detection: automated conflict detection and alert generation
- > One platform: a single HMI for year-round planning cycles and traffic patterns
- > Extension packages: multiple views and additional value tools available
- > Configuration: intuitive configurable and adjustable business rules
- > Modular Concept: integrates with other L3Harris ATC decision support and airport demand capacity planning tools

ORTHOGON STAND ALLOCATION HMI



BUILT WITH ORTHOGON ODS™ OPEN PLATFORM

By leveraging the ODS™ Open Platform, the Orthogon Stand Allocation HMI is highly configurable and adaptable. Its modular architecture allows for easy additions and functional modifications that best suit the user's needs.

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1025 W. NASA Boulevard
Melbourne, FL 32919