

Optimizing Airport Ground Handling

ORTEC BusCom Smart Planning of Apron Bus Operations

The Ground Handling process at airports is very time and cost-sensitive. All parties aim to provide the best quality services at lowest cost, while frequently facing operational disturbances. Peak periods, when personnel and equipment are short in supply, are followed by idle time. ORTEC BusCom is a real time planning and management solution that helps effectively reduce the peak-hour effects while delivering an even better quality and on-time service through smart planning and coordination.



ORTEC BusCom

With ORTEC BusCom, ORTEC has created a dynamic planning and control system that allows you to react instantly to last-minute changes in Ground Operations processes. ORTEC BusCom benefits from the latest optimization technology. This dedicated application serves both planning and control purposes, makes use of up-to-date arrival and departure times, aircraft gate positions, and current and planned positions for personnel and equipment allowing the planning department to immediately create an optimized allocation or reallocation.

Smart Planning

ORTEC BusCom supports all relevant planning stages including capacity planning down to the required resource day and hour. With ORTEC's optimization techniques you can even handle the initial assignments of resources to tasks before the planning process.

Operations and mobile data exchange

Operational flight movement information in most cases is available in real time. Ground handling agents rely on the central flight information system that contains all airport schedule information including

flight numbers, arrival and departure information, period and days of operations, timing and seating. Optionally, passenger numbers and cargo quantities can be added.

Facilitating the exchange of information between key parties is crucial for the success of the airport and all of its clients. The combination of powerful dynamic planning and optimization with reliable real time information, as input and output, is a key success factor. It allows minimizing lost time and improves efficient use of resources, which in turn translates into lower costs, better competitive positioning and a higher quality of service. Not by coincidence very important factors in your business.



In ORTEC BusCom, each vehicle has a mini mobile two-way communications terminal at its disposal. As each vehicle has a unique identification, its position on the apron can be displayed at the dispatch center. Since apron buses have a lead time of just three to eight minutes to arrive at the pick-up point, such fast and accurate communications are needed.

With each change, new duty information for a particular crew is displayed on the mobile screen including flight number, arrival and departure times,

airline and new gate position. Just by pressing a button the crew sends confirmation of the adjustment to the planner. By the same token, specific operational information can be exchanged, and – in a matter of seconds – a new optimized plan is generated.

Currently ORTEC BusCom is being applied on apron buses. However, with a few adjustments, ORTEC BusCom is also applicable for efficiently assigning aircraft to gates and other Ground Handling functions such as Check-in counters, Catering, Baggage handling, Fuel servicing, Cleaning, Towing and Security. All of these are prone to last-minute changes and the consequential inefficiencies. Our latest technology allows you to plan efficiently and coordinate measurable cost savings.

Your benefits

Cost reduction and increased efficiency

- Increased insight in real-time processes
- Optimal control of manpower and equipment
- Unrivalled value of money

ORTEC's Advanced Planning Software

- Excellent overview of available resources
- Real time alerting of conflicts and delays
- Continuous (re-) optimization
- Highly developed modularized software, configured-to-fit
- Perfectly multi-user, multi-site, multi-language
- Mobile data communication

About ORTEC

ORTEC is one of the largest providers of advanced software solutions and consultancy services for planning and optimization. ORTEC has more than 800 customers worldwide, 700 employees, and various office locations in Europe and North America.

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