

PASSENGER FLOW AND PROCESS SIMULATION SOFTWARE



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CAST Terminal provides scalable and realistic models of airport terminals and other passenger handling facilities. It enables decision support for planning, design, capacity analysis and optimization of terminal infrastructure and operational processes.



CAST Terminal can be applied for a variety of use cases. On the one hand the software is used to assess future facility requirements and to validate new terminal layouts and processes in order to achieve maximum planning reliability at the earliest stage. Additionally, CAST Terminal provides great potentials to optimize the existing terminal facilities and processes within various operational scenarios.

With CAST Terminal, an entire airport or its individual parts can be investigated in detail in order to cost-effectively conduct analyses aiming at:

- » Planning of optimal and balanced terminal infrastructure
- » Identifying bottlenecks and testing mitigation measures
- » Detecting “hidden” capacity and optimizing the usage of resources
- » Analysis of Level of Service and ensuring highest passenger convenience
- » Identification of the most effective and cost efficient operational concept
- » Support of tactical and strategic decision-making in airport operations and management

The user-friendly interface allows fast and straightforward modelling of complex infrastructures and processes as they appear in real world airport terminals.

The software offers the configuration of numerous airport-specific parameters concerning facilities and passengers leading to the most reliable results. Besides the generation of relevant statistical data, the 3D visualization is an essential feature to convince decision makers.

FURTHER FEATURES

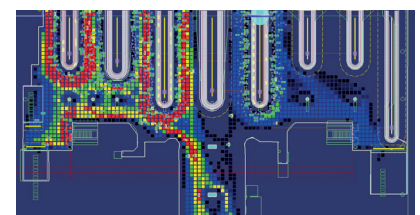
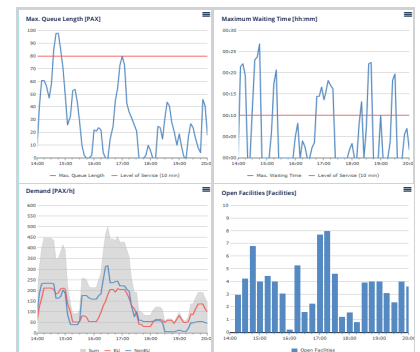
- » Flexible representation of terminal facilities (abstract or detailed)
- » Import of CAD layouts and various 3D object files
- » Flexible generation of passengers based on airport specifics and flight schedules
- » Analysis of various statistical data (e.g. LoS, queuing and dwelling times, utilization rates, occupancy level, etc.)
- » Rule- and demand-based resource allocation with Gantt chart visualization
- » Pre-designed analysis templates for easy KPI extraction

CAST Terminal can be used stand-alone or as an integral part of the CAST product family:



FACTS AND BENEFITS

- ✓ Clear representation of all terminal processes
- ✓ Reduced investment costs and risks
- ✓ Testbed for new configurations and ‘what-if’ experiments
- ✓ Standardized and faster planning process
- ✓ Prevention of planning mistakes
- ✓ Easy communication with stakeholders
- ✓ Quick return on invest



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