Lenok RMS

Airport Resource Management System

Optimize Airport Resources

**Human Resources   Ground Service Equipment
Terminal Resources**

Short Term / Long Term Planning
Seasonal Planning
What-If Scenarios
Operations Management
Real Time Changes

Check In Desks
Baggage Chutes
Boarding Gates
Parking Stands
Baggage Carousels
Exits

GRAPHICAL   INTERACTIVE   SMART

Lenok RMS

Airport Resource Management System

Lenok RMS is a powerful solution to assist long-term, seasonal, short-term and daily planners to reach a maximum usage of the existing resources. With its highly sophisticated planning and optimization algorithms, Lenok RMS represents an innovative expert system for efficient airport resource management.

Lenok RMS is a flexible, user-friendly and feature rich airport resource management solution. It support the user in any situation in the best way through populating what-if scenarios and comparison of different concepts and data in multiple ways. Lenok RMS has a state of art Operational Module where user can manage all the operational conflicts and scenarios.

Lenok RMS is a new generation system which used all technological advancement from Planning & Rostering Algorithm, User Interface Design to Reports, Dashboards and broad integration with supporting systems. It is also a proven solution in combination with aviation domain advancement including Airport-CDM.

Lenok RMS
SALIENT FEATURES

- A Web based solution Centrally hosted, but also locally hosted if required.
- Long-term, seasonal, short term and daily allocation planning based on preferred KPI(s) and customer preference.
- Suitable for any size of airport - from regional airports to hub airports (also considering connecting flights)
- No limitations in resources, rules and constraints
- Most advanced planning and optimisation algorithms with unrivalled performance supported by business rules with multiple weighted KPIs processed simultaneously.
- Conflict and preference rules, for improved performance.
- Improved use of available capacity.
- Full situational awareness of resources in a Intuitive HMI with modern Gantt Gantt style view.
- Full allocation control, using a configurable critical time window.
- Easy to use just like a modern website.
- Continuous performance monitoring of resources.
- Automatic consideration of any (flight) data update.
- Integrated, powerful and fast analysis function.
- Recording of all changes and replay facility for post-operational investigations.
- Collaborative decision support tools & dashboards based on KPI driven options.
- Integration with flight management systems and tools including A-CDM compliance Flight schedules.
- Alerts, notifications and flight status.
- Quick resolution of a local conflict (single or more flights).

CURRENTLY AVAILABLE
Modules

Core module – Resource Planning and Allocation
The purpose of the Core module is to plan resources and allocate different task to the reources by means of different functionalities:
• Operations planning. The system performs a massive resource assignation based on business rules designed for the airport.
• Simulation of resource allocation scenarios, prior to planning and task assignments.
• Management of resource assignations. RMS allows to re-assign the tasks based on the latest resource scenarios further to the assignments done during the initial planning.

Rules management
This module provides a rules engine that allows the optimization of resources assignation, and the resolution of conflicts in an optimal manner.
Provides a rules management system, that allows the user to configure the resource assignation rules and various business rules of the organization.

Contract Management
Contract Modules is for recording the KPIs and other details of the service level agreements between the customer and Airports/Ground Handling Agents, against which resource planning and service rendering happens.

Flight Schedule Management
Comprehensive management of flight schedules. Manages the regular schedule flights and ad-hoc flights for the task creation and allocation at any stage of resource management.

Reports and Analytics
Provides different types of reports and dashboards with historical information about occupancy of resources, traffic growth, etc.

Real Time Management with 2D Visualization
Operations management in real-time. The operational information is updated in real-time through automated messages or by manual in the RMS. The RMS re-assign the resources, detects conflicts and proposes optimal solutions in response to the data updated.

A 2D interactive visualization of the actual resource allocations is available where user can make real time changes.

KEY BENEFITS

Improve operational efficiency and **reinforce customer satisfaction** with a better use of fixed resources and a clear visibility on decisions and their impacts on SLAs.

Reduce costs through an optimised use of airport resources so that increment in infrastructure expansion investment can be minimized.

Enhance passenger experience with a speedier turnaround process diminishing the risk of flight delays.

Prevent late resource allocation changes including gates and stands with real-time flight data updates from the source and with passenger details.

Easy and efficient administration, based on user and group profile customisation enabling full control of data access and update capabilities.

Improved decision making by the way of full visibility and access on data and analytics.

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