

# RESOURCE MANAGEMENT SYSTEM



Efficient, Practical  
Operation Management

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## RMS





*RESOURCE MANAGEMENT SYSTEM*

END-TO-END TECHNOLOGY  
SOLUTIONS

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# WHAT IS RMS?

Management of critical assets is crucial for the maximum effectiveness of airport operations. TAV Technologies Resource Management System (RMS) is the key for the effective planning of airport operations. The system enables efficient use of airport resources through better planning and optimum use of resources thus, improving passenger experience.

The system's advanced optimization capabilities have been developed in cooperation with academics in the field using extensive mathematical modeling and optimization algorithms, thereby ensuring flawless resource allocation and increased utilization of resources.

TAV Technologies RMS includes the following modules that can be installed either as a whole or on an individual, modular basis:

- **Stand and Gate Management**
- Check-in Desk Management
- **Carousel Management**
- Chute Management



# WHY TAV TECHNOLOGIES RMS?



## REDUCE OPERATIONAL COSTS

TAV Technologies RMS reduces the manual work and increases efficiency throughout the airport. The system's advanced algorithm allows airports to maximize the utilization of higher-value resources and enables smoother operational planning with its advanced integration capabilities. The system also increases operational productivity, delivering higher levels of passenger and airline satisfaction.



## OPTIMIZED RESOURCE ALLOCATION

Revolutionary multi KPI optimization algorithm provides best-fit solution helping airports to achieve efficiency based on their configured rules and weightings.



## MULTI AIRPORT MANAGEMENT

TAV Technologies RMS's advanced architecture allows operators to plan and manage more than one airports' resources from a single interface.



## WEB APPLICATION

The system offers easy access through the web-based application offering availability anytime from any platform.



## RELIABLE

The solution runs and provides reliable data across all systems.



## FLEXIBILITY

TAV Technologies RMS's numerous implementations with business rules and processes for both daily and seasonal operational planning periods, provides operators improved adherence to SLAs.



# KEY FEATURES



## SEASONAL, SHORT-TERM AND AD-HOC PLANNING

TAV Technologies RMS's long term (seasonal) planning capabilities allow operators to plan the whole season. It can easily determine the busiest days and hours before the active operation period and take necessary actions to prevent possible bottlenecks.



## MULTI RULESET MANAGEMENT

TAV Technologies RMS provides Configurable Critical Time Window and Multi Ruleset Management Functionalities. The system is flexible to define any rule/constraint with logical combinations for every resource type. Dynamic Resource Usage Duration definitions for relevant resource types allow realistic resource planning. Different operating rules for different time periods can be automatically activated when the time comes, without the need for any manual intervention.



## INTELLIGENT CONFLICT MANAGEMENT

The system offers intelligent rule-based conflict management and error handling capabilities that automates resolution adjustments, reducing the operational errors. The system provides users with notifications about flight changes and required actions, increasing service levels throughout the airport.



## WHAT-IF SCENARIO PLANNING

TAV Technologies RMS's advanced algorithm offers integrated What-If Scenario planning feature that runs alternative scenarios with different rule sets, providing operators with possible bottlenecks and capacity predictions.



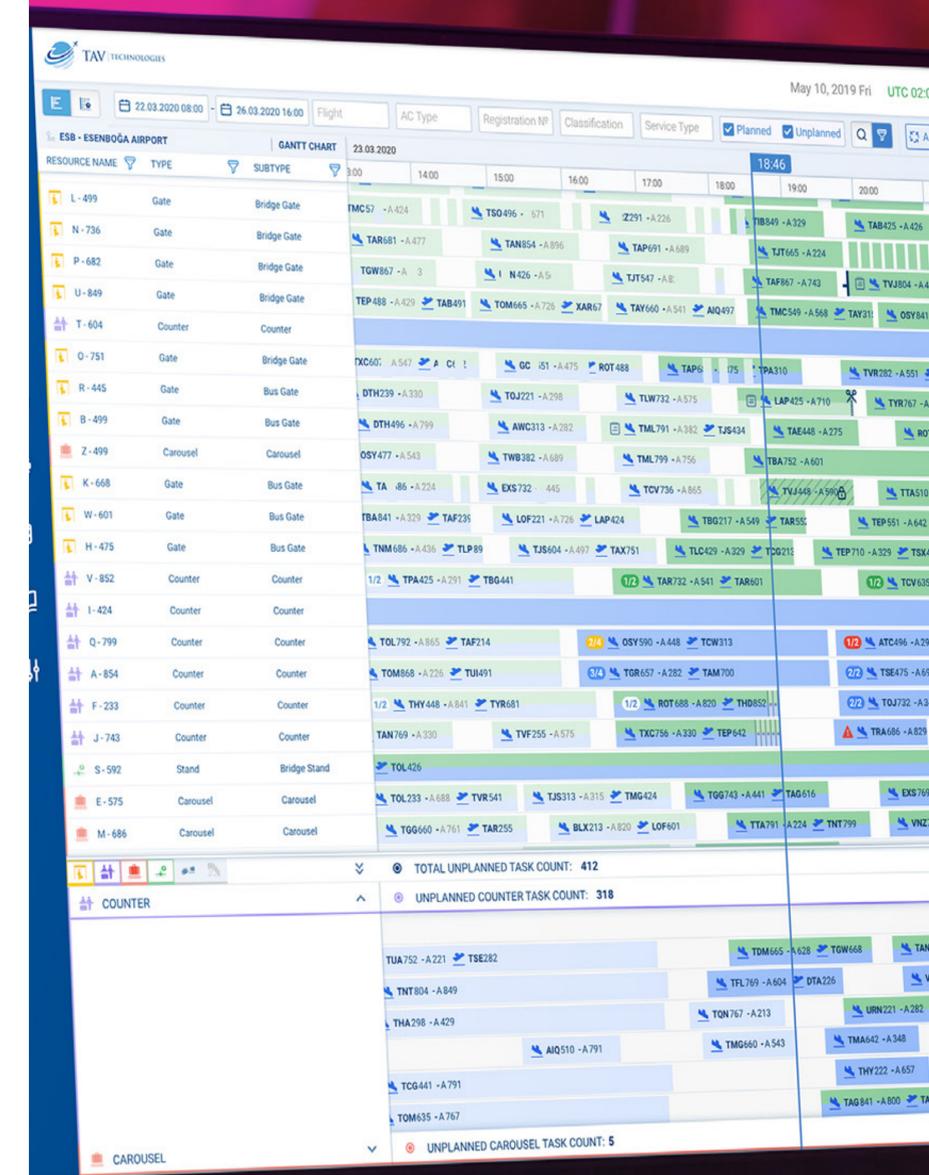
## REAL - TIME APRON VIEW

The system's real-time apron view feature provides operators with perfect situational awareness that displays the usage and availability of airport's resources.



## CUSTOMIZABLE USER INTERFACE

The advanced user centric interface is highly flexible and customizable experience for the operators. The system provides perfect situational awareness with customizable color-coded resources and flights based on predefined rules and configurations. TAV Technologies RMS's holistic approach for airport operations offers users aerial view of apron by timeframes.



# TECHNICAL SPECIFICATION

## Virtual Flight Management

TAV Technologies RMS's virtual flight management feature allows operators to evaluate ad-hoc slot requests.

## Decision Support

The system's advanced decision support tool with automatic or semi-automatic advisory mechanisms helps operators to manage ad-hoc changes during operation.

## Repetitive Resource Allocation

The system allows operators to easily set repetitive allocations for seasonal allocation.

## Multi KPIs Optimization Engine

TAV Technologies RMS's revolutionary multi KPI optimization engine enables operators to prioritize multiple rules to achieve perfect efficiency throughout all airport operations.

## Custom and Configurable Business Rules

The system's advanced architecture allows operators to set unique business rules that are best fit for their operations.

## Automatic Planning

Operators can take advantage of automatic planning capabilities depending on the configuration (either continuous or at a specific time) for daily operations.



## Minimum Number of Clicks

Manual optimizer triggering, or manual allocation can be done with a single click.

## Configurable Update Management

Reflect the incoming updates in real time and configure the system's behavior.

## Resource Status Management

Manage the circumstances where the resources are unavailable and validate resources easily.

## Unlimited Resource Definition

Add additional resource types to the system with simple configurations and execute their operations.

## Advanced Reports

Flexible reports, supported by historical data.

## Easy to Use GUI

User friendly, Gantt-chart based Graphical User Interface.

## Multi-User/Language

The system offers multi-user and language support.

## Consistent Business Logic

The business logic of the system is consistent and can reflect operation phases comprehensively.



**Headquarters:**  
Turkey Istanbul

## Other Offices

Turkey - **Izmir, Ankara, Bodrum**; Netherlands - **Amsterdam**; Tunisia - **Enfidha**;  
Macedonia - **Skopje, Ohrid**; Kazakhstan - **Almaty**; United Arab Emirates - **Abu Dhabi**;  
Saudi Arabia - Madinah, Riyadh, Dammam; Qatar - Doha

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