

# SLOT COORDINATION AND CAPACITY MANAGEMENT SYSTEM



Manage Your Capacity Effectively

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## SCMS







# SLOT

*SLOT COORDINATION AND CAPACITY MANAGEMENT*

END-TO-END TECHNOLOGY  
SOLUTIONS

## INDEX

WHAT IS A SLOT COORDINATION MANAGEMENT SYSTEM(SCMS)?	3-4
WHY TAV TECHNOLOGIES SLOT MANAGEMENT SYSTEM?	5-6
SCMS MODULES	7-8
KEY FEATURES	9-10
ABOUT TAV TECHNOLOGIES	11-12



# WHAT IS A SLOT COORDINATION AND MANAGEMENT SYSTEM(SCMS) ?

**Airport slots are specific points that are allotted for airplanes for their landing and taking off. The paramount objective of airport slot coordination is to reach the most efficient use of airport capacity to maximize the interests of passengers, airlines and airports through optimization methodology.**

TAV TECHNOLOGIES SCMS is designed to meet the capacity management requirements of airport slot coordinators and capacity planners in full compliance with IATA standards. Coordinators can easily plan, manage, monitor the capacity of all airport resources during slot coordination processes to ensure the most efficient and achievable slot allocation. The system helps to identify operational bottlenecks and violation of capacity limits in the most efficient way by making an advanced capacity calculation and provides operational speed to slot coordinators with the help of easy-to-use graphic screens. The system supports better decision making through providing what-if scenario evaluation features. Moreover, the system provides users with extensive features that help them manage the slot coordination process thoroughly, from initial planning to implementation.





# WHY TAV TECHNOLOGIES SLOT MANAGEMENT SYSTEM?

## User friendly & reliable system

Easy to use with dashboards, charts and graphics. Real-time notifications enable the slot coordinator to take proactive actions.

## Advanced optimization

The users can easily detect bottlenecks when the capacity does not meet the demand and they are guided to take necessary actions.

## Compliance with IATA Standards

It allows to plan, manage, monitor and optimize the usage of airport resources in full compliance with IATA standards.

## Automatic slot allocation

Slots are allotted automatically for each aircraft.

## Efficiency with holistic approach

The system considers each airport resources such as runway, terminal, gate, stand, check-in counters before deciding on slot allocation. The average waiting time for passengers is given as an output of the simulation.

## Applicable for real-life constraints

The system's output is realistic and simulates a real operational scenario during the slot-planning phase.

## Advanced statistical reports

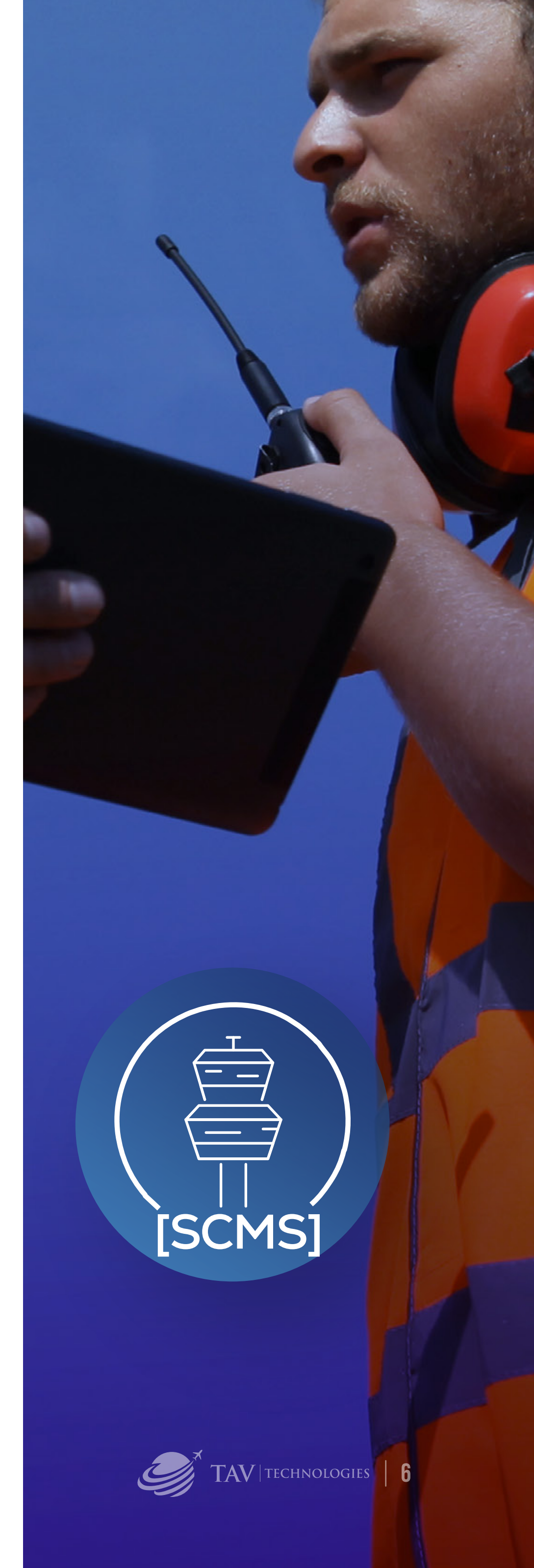
The users can follow seasonal performance through reports. Airport operators can see seasonal differences in terms of flight schedules and easily make a comparison between planned and actual flights. The system offers various reports according to needs in different formats like TXT, CSV, and XLSX.

## Integrated with other airport systems

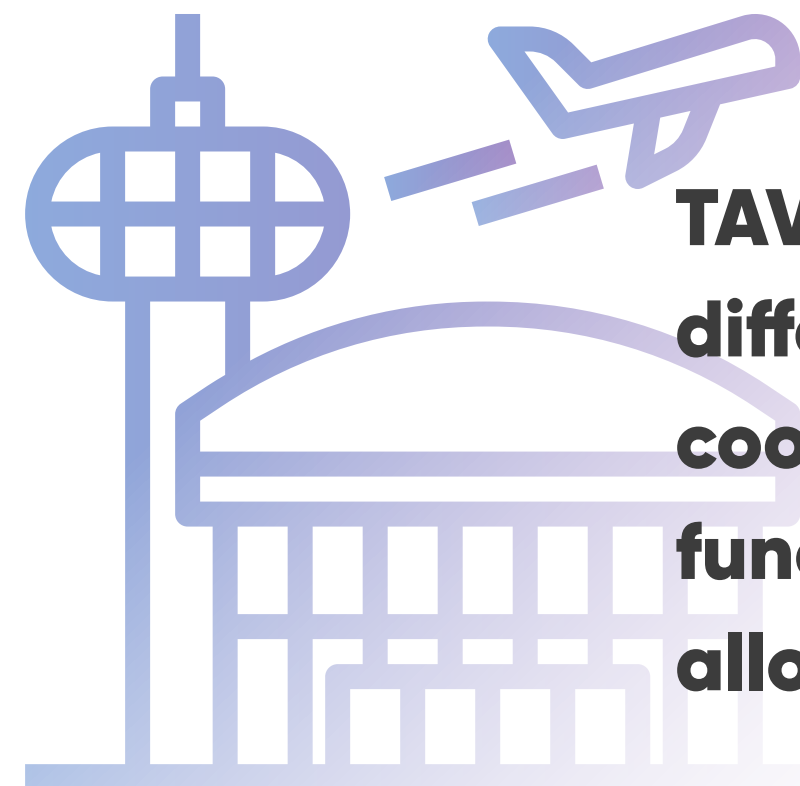
Integration options with other airport systems, including AODB and RMS are offered for airport managers.

## Communication with airlines

The system allows users to communicate with airlines through its advanced messaging functions.



# SLOT COORDINATION AND MANAGEMENT SYSTEM



**TAV TECHNOLOGIES SCMS includes five different modules to cover all necessary slot coordination and capacity planning functionalities for accurate slot allocation decisions.**



## SLOT PLANNER MODULE

It provides an easy-to-interpret and comprehensive dashboard with visual notifications and charts that show the capacity of airport resources. These airport resources can be both aircraft movement-related (runway, stand, gate) and passenger movement-related (passport kiosks, security checkpoints, check-in counters). The real-time data flow of the Slot Planner Module helps the users with the real-time capacity evaluation capability.



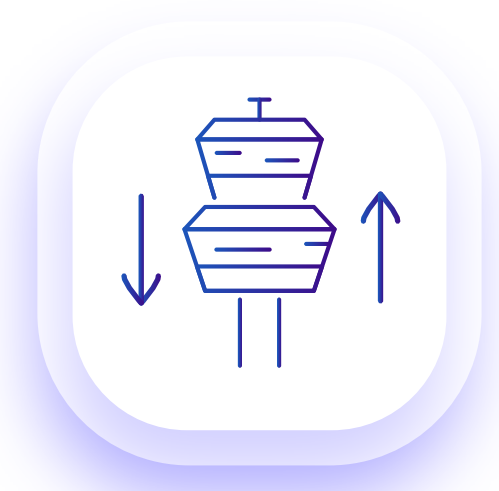
## WHAT-IF MODULE

It provides different flight schedules and airport infrastructure scenarios as well as alternative physical or operational rules and regulations. Capacity planners can plan the airport infrastructure or resource expansion projects based on the results of growth trend scenarios with the help of the what if module. They can also determine the appropriate periods for long-term infrastructure maintenance projects.



## SIMULATION MODULE

It helps airports to simulate the passenger flow in the airport and plan their passenger-related resources accordingly.



## SLOT COORDINATION MODULE

It presents detailed slot records in tabular format, which guarantees efficiency in managing and monitoring historic, current and future slot allocations.

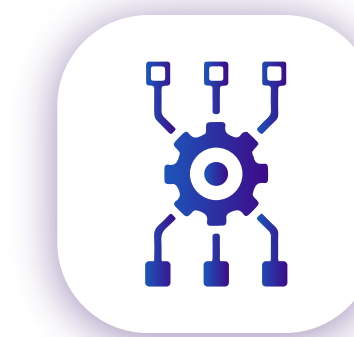


## CAPACITY MANAGER MODULE

It provides a Gantt Chart-based graphical display of airport resources, which allows slot coordinators to have a full view of the available capacity. In addition, the module has an optimization feature that maximizes the utilization of resources.

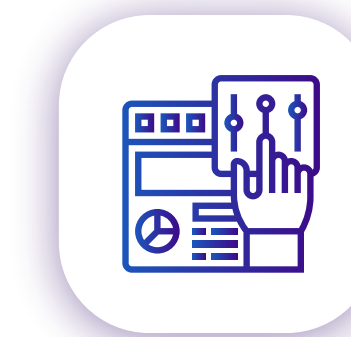


# KEY FEATURES



## STATE OF THE ART OPTIMIZATION MODELING ALGORITHM

The system evaluates slot allocation alternatives based on resource availability and a predefined rule set, then offers the best solution.



## ADVANCED GRAPHICAL USER INTERFACE (GUI)

TAV TECHNOLOGIES SCMS provides a user-friendly, Gantt Chart-based graphical display of airport resources which allows slot coordinators to see the airport capacity easily.



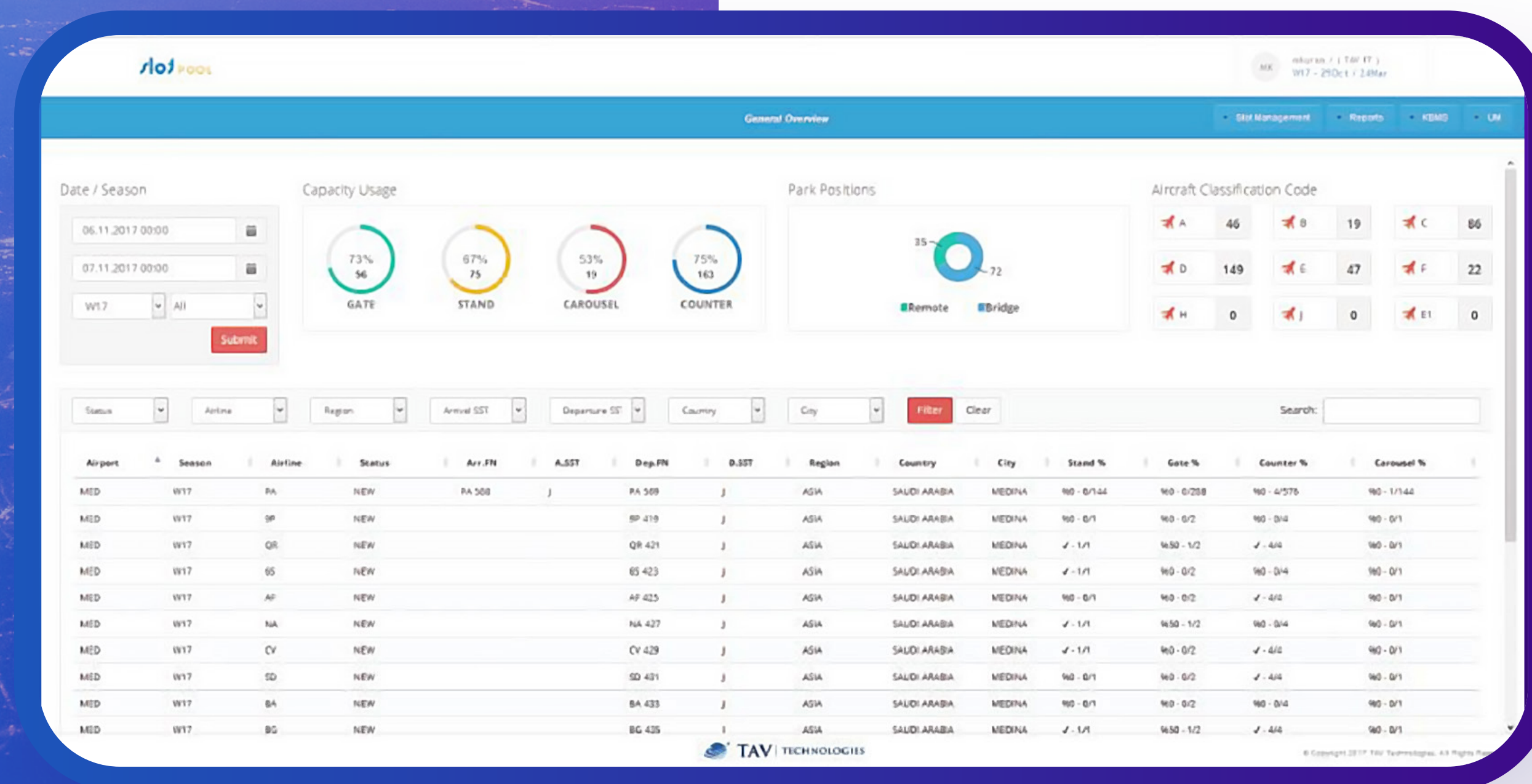
## BATCH FILE-UPLOAD OPTION

Airport operators can easily upload flight information documents and requests by using a single template at one time.



## AUTHENTICATION AND AUTHORIZATION MANAGEMENT

This system preserves hierarchy within airport operators to prevent possible incorrect transactions. SCMS modules and confirmation mechanisms are offered according to airport employees' positions and roles.





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**WE** surround  
**THE WORLD** with  
OUR **TECHNOLOGY**

 <b>40+</b> Products	 <b>40+</b> Airports	 <b>13</b> Countries	 <b>3</b> Continents	 <b>170</b> Million Passengers
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TAV Technologies, a subsidiary of TAV Airports Holding which is a member of Groupe ADP, is a leading technology brand; designing, developing and implementing aviation services and solutions globally.

As a visionary technology solution partner and a master systems integrator; it provides total technology management, delivers best-in-class designs & turn-key integrated solutions it develops in its Research-Development Center and Innovation Hub.

The company covers all 3 main streams of information technologies in one company; in-house software product development, contractor for complex ICT projects and IT operations management & consultancy.

Its Smart Airport concept creates high satisfactory experience for passengers, airlines and airports by taking full advantage of the latest technologies and innovations.

It is recognized and trusted globally for 24/7 Operation and Support, state of the art design, installation, configuration and integration for Airport IT & Building Technologies with its agile teams. It provides services in line with internationally accepted ITIL, COBIT standards and has a wide business partnership network with leading companies in the industry. It has also been accredited by the ISO 9001 Quality Management System and ISO 27001 Information Security Management System certificates.



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