we
utilize your
capacity

SCMS / SLOT

TAV | TECHNOLOGIES
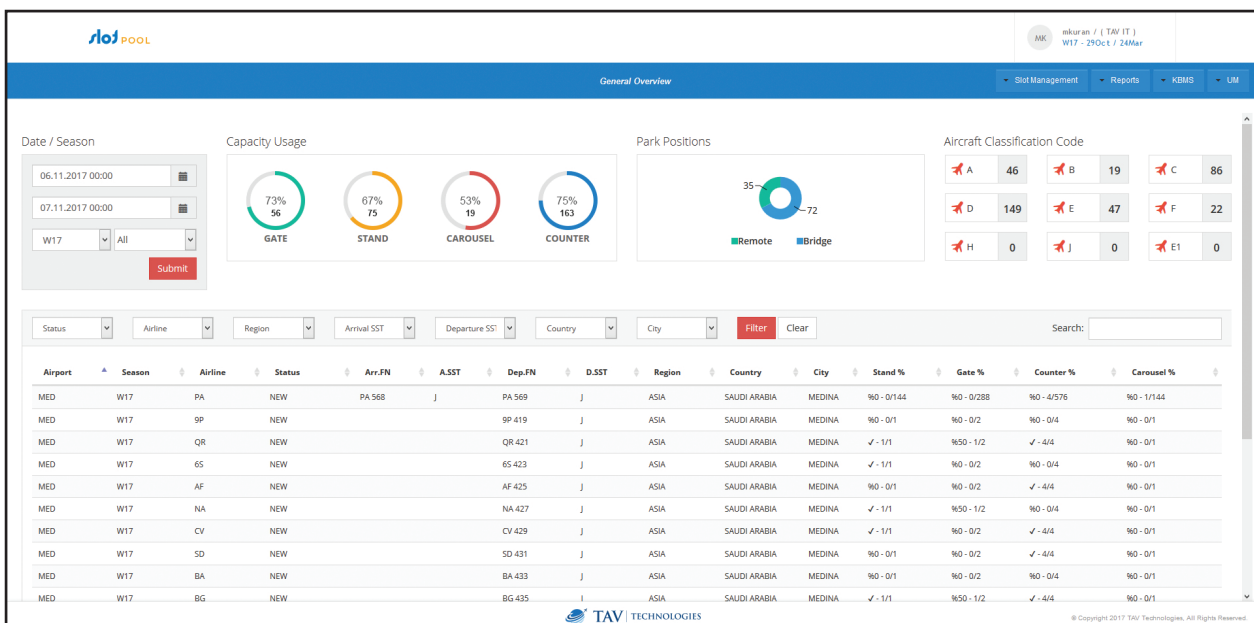THE FUTURE IS UNDER OUR WINGS

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SCMS/SLOT

✈ TAV TECHNOLOGIES SLOT COORDINATION AND CAPACITY MANAGEMENT SYSTEM (SCMS)

✈ A SLOT MANAGEMENT SYSTEM TO UTILIZE YOUR CAPACITY EFFECTIVELY

TAV TECHNOLOGIES SCMS is designed to meet the capacity management requirements of airport slot coordinators and capacity planners. It is an efficient, comprehensive and user-friendly system that allows coordinators to plan, manage, monitor and optimize the usage of airport resources in full compliance with IATA standards.

TAV TECHNOLOGIES SCMS offers remarkable efficiency in capacity management and the best possible performance in slot coordination. TAV TECHNOLOGIES SCMS is built on vast experience accrued at numerous airports, which ensures it addresses the real operational and planning needs of slot coordinators and airport capacity planners. Thus, TAV TECHNOLOGIES SCMS has proven to be a highly reliable and functional system.

TAV TECHNOLOGIES SCMS includes five modules to cover all necessary slot coordination and capacity planning functionalities and facilitate accurate slot allocation decisions:

• The **Slot Coordination** module presents detailed slot records in tabular format, which guarantees efficiency in managing and monitoring historic, current and future slot allocations.

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

| Slot Pool | Capacity Manager/ Gantt | Slot Planner | Simulation | What-if |

- The **Slot Planner** module provides an easy-to-interpret and comprehensive dashboard with visual notifications and charts that show the capacity usage of airport resources. Airport resources can be both aircraft movement related (e.g. runway, stand, gate) and passenger movement related (passport kiosks, security check points, and check-in counters). The data is updated in real-time and therefore the Slot Planner Dashboard equips the users with the real time capacity evaluation capability.

- The **What-if** module offers the capability to evaluate different flight schedule and airport infrastructure scenarios as well as alternative physical or operational rules and regulations. Using the what-if module, the capacity planners of the airport can plan the airport infrastructure or resource expansion projects based on the results of growth trend scenarios, and can determine the most appropriate date intervals for any long-term infrastructure maintenance events.

- The **Simulation** module helps airports to simulate the passenger flow in the airport and plan their passenger related resources accordingly. The module provides the functionalities to reflect the passenger attributes and behaviors in the system.

✈ HOLISTIC APPROACH TO SLOT MANAGEMENT

TAV TECHNOLOGIES SCMS helps airports use their capacity to the maximum as it offers an automatic slot allocation feature that aims to enhance the utilization of resources at the airport. The system offers the ability to take the capacity of every relevant resource at the airport into account when responding to slot requests (runway capacity, terminal passenger capacity, gate/stand/etc. capacity, number of check-in counters, etc.). Its output is realistic and applicable as it also allows users to define real-life constraints in the system. Therefore, the system equips users with the ability to simulate a real operational scenario during the slot-planning phase.

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✈ COMPREHENSIVE CAPACITY PLANNER

TAV TECHNOLOGIES SCMS is a complete capacity planning solution that provides the holistic view of the resource usage on charts and graphics. The users can easily see the problematic time intervals where the capacity does not meet the demand and are guided to take necessary actions.

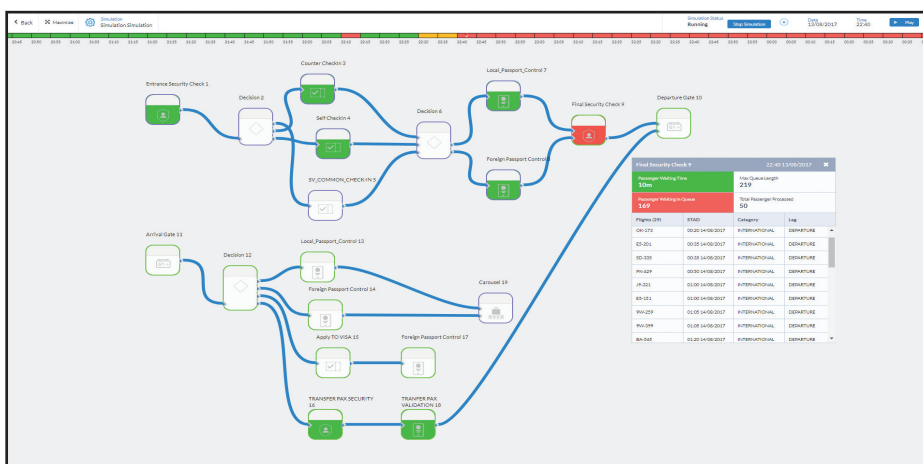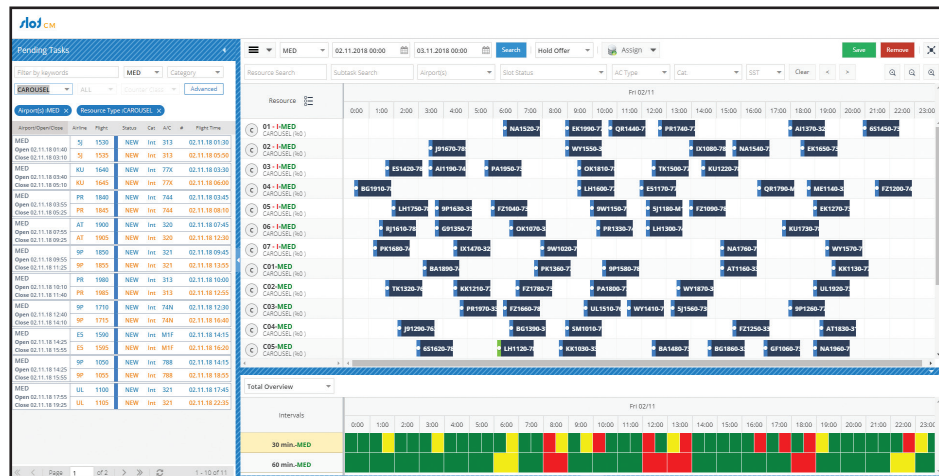## ✈ TAV TECHNOLOGIES SCMS KEY FEATURES AND BENEFITS

- Better use of available airport resource capacity

- Makes it easy to detect bottlenecks and helps make problem solving and decision-making more efficient

- Evaluates slot allocation alternatives based on resource availability and a predefined rule set, then offers the best solution by using an Advanced Optimization Modeling Algorithm

- Expedites the messaging process through improved communication with airlines

- Presents notifications, enabling the slot coordinator to take proactive or corrective actions

- Easy-to-use graphical display for improved capacity allocation

- Enables airlines to alternate among online access to the system, Type-B and email messaging

- Detects and displays inconsistencies in flight plans

- For slot allocation, real-time impact assessment for changes made to any factor

- Effective handling of historic rights

- Batch file-upload option offered to both airlines and airports to support processing batch requests which are already included inside Excel files.

- Advanced Graphical User Interface (GUI) simultaneously displays updated notifications and warnings

- Passenger load generation and flow development as part of the simulation module

- Average waiting times for passengers in queues as an output of the simulation (passport, security, etc.)

- Integration options with other airport systems, including AODB and RMS

- Advanced authentication and authorization management

- Extensive statistical reporting

- Efficient management of airport capacity

✈ HOW TAV TECHNOLOGIES SCMS CAN HELP YOU?

Slot coordination is the key to effective and efficient airport management. An ever-increasing demand for air transportation necessitates optimal utilization of airport infrastructure. Slot coordinators are primarily responsible for making the most of these limited resources. This can only be achieved by using a powerful tool to plan, manage, monitor and optimize airport capacity.

TAV TECHNOLOGIES SCMS makes online coordination possible between slot coordinators and airlines, as well as Type-B and email messaging. Slot coordinators can make better assessments and decisions that lead to optimal outcomes using TAV TECHNOLOGIES SCMS, which equips them with substantially improved capacity management, monitoring and optimization capability. Each airport might experience a different bottleneck depending on resource availability and flight demands. TAV TECHNOLOGIES SCMS allows slot coordinators to pinpoint bottlenecks and to develop effective solutions.

TAV TECHNOLOGIES SCMS introduces an unprecedented and realistic approach to slot management and capacity planning in that it provides exceptional dashboards and resource displays enhanced with capacity optimization capability. TAV TECHNOLOGIES SCMS is the reliable and powerful solution to address the real capacity management requirements of slot coordinators.
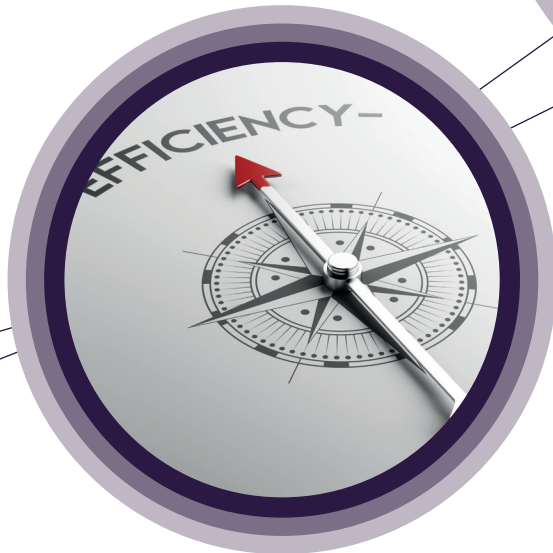
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✈ WHY TAV TECHNOLOGIES SCMS?

- **Comprehensiveness:** The system provides users with extensive features that help them manage the slot coordination process thoroughly, from initial planning to implementation. The capacity of all airport resources can be considered during slot coordination processes to ensure the most efficient and achievable slot allocation.

- **Holistic approach for improved operational efficiency:** TAV TECHNOLOGIES SCMS has been developed in consideration of the complex environment of airport operations. Adherence to slots is highly dependent on the realistic and applicable slot allocation, which can be achieved if the capacity of every relevant resource is taken into consideration. The holistic approach of TAV Technologies SCMS ensures the best slot allocation, thereby improving the airport's operational efficiency.

- **Flexibility:** The system is flexible, and can be configured to implement numerous business rules and processes.

- **Consistent business logic:** The business logic of the system is consistent in order to reflect the phases of slot planning comprehensively.

✈ WHAT TAV TECHNOLOGIES SCMS USERS SAY

"Conventional Slot Management systems rule out the actual capacity limits of the terminal. We needed total management of airport resources to improve the adherence to allocated slots, which can only be achieved when the system considers all of the airport's relevant capacity constraints. TAV TECHNOLOGIES SCMS helps us to simulate all our capacity constraints during slot planning."

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