TOTAL AIRPORT MANAGEMENT SUITE

Next Generation Airport Management

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TOTAL AIRPORT MANAGEMENT SUITE

END-TO-END TECHNOLOGY SOLUTIONS

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WHAT IS TOTAL AIRPORT MANAGEMENT SUITE (TAMS) ?

The complexity of airport operations requires cutting-edge technology which can assure collaboration between various airport systems. Each airport operation is managed by different systems and delivering a central platform is crucially needed for centralized management. TAV Technologies brought its vast technical and operational expertise together to design next generation management program for smart airports.

TAV Technologies presents Total Airport Management Suite (TAMS) which is a central platform for total airport management including all landside and airside processes aligned with existing systems, integrating them into one holistic architecture. TAMS is an integrated platform designed for multiple airport management areas from initial planning to implementation and reporting.

Please click here to watch TAMS video

Click here to visit TAMS website

WHY TAV TECHNOLOGIES TAMS?

Holistic Airport Management
TAMS is an integrated platform featuring multiple solutions: airport resource management, capacity planning, commercial management and ground handling services.

Increased Efficiency
TAMS uses state-of-the-art technologies to achieve revenue enhancement, maximize operational excellence and improve productivity.

Revenue Enhancement With Smart Decisions
TAMS assists airport operators to make better decisions through algorithms and rulesets, minimizing human error and workload.

Minimized User Intervention
The system is based on the latest technologies such as flight delay predictions for efficient resource planning. Moreover, it eases user decisions and aims to minimize user intervention.

Pro-active Decision Making
AI-based suggestion engines help airport operators to work with 'what-if' scenarios and simulation tools, ensuring evolution from reactive approach towards pro-active collaborative decision making to prevent operational issues.

KEY FEATURES

- **INDUSTRY-LEADING TECHNOLOGY**
- **MODULAR ARCHITECTURE**
- **REVOLUTIONARY UX & UI**
- **MOBILE APPS**
- **MULTI-AIRPORT**
- **CLOUD-ENABLED**
- **REAL-TIME KPI MONITORING**
- **PREDICTIONS AND SUGGESTIONS**
- **SIMULATION & WHAT IF**
- **OPTIMIZATION ENGINE**

TAMS MODULES

RISING TECHNOLOGY

FLIGHT MANAGEMENT SYSTEM (FMS)

Flight Management System enables airport operators to manage airports' complex flight data with high-performance, visualized, user-friendly, and customizable configuration structures in real-time. The system is configurable to fit any type of airport operation. It reduces the operation costs and optimizes the labor force with its automated and smart structure. The system is ready to connect and get the most recent flight data from airport stakeholders with all known standard messaging formats. FMS informs the user about the possible problems within the airport and assists operators in taking proactive measures, using its smart algorithms and advanced warning systems. FMS provides real-time performance to all employees of the airport with the operational dashboard created with live flight data. The system grants access to all airports from a single application with its multi-airport operation feature.

RESOURCE MANAGEMENT SYSTEM (RMS)

TAV Technologies Resource Management System (RMS) is the key to the effective planning of airport operations. The system enables efficient use of airport resources through better planning and optimum use of resources thus improves the passenger experience. Resource Management System (RMS) allows airports to plan and manage resources (e.g.stands, gates, check-in desks, baggage belts, and chutes) in an optimum way.

COMMERCIAL MANAGEMENT SYSTEM (CMS)

Commercial Management System helps to manage aeronautical and non-aeronautical revenues with customer contract management, tariff-rule management, rental area and utility management, invoicing and reporting at the airports. It connects with Airport Operational Data Base to collect all data related to aeronautical operations. TAV Technologies CMS is integrated with different ERP systems to send/ receive financial data to create accurate accounting records. It provides data consistency across all systems and customer reports, which cover both operational and financial data together.

AIRPORT COLLABORATIVE DECISION MAKING (ACDM)

ACDM provides a reliable platform for all aviation community stakeholders such as aviation authorities, airline operators, airport operators, ground handling service companies, and air traffic controllers. Implementation of ACDM allows each airport collaborative decision-making partner to optimize their decisions in sync with the other A-CDM partners, knowing their preferences and constraints, increasing operational efficiency. Air traffic flow can be managed holistically based on shared and common views among different parties. Each flight is observed from landing to departure and relevant information regarding the flight is reciprocally shared between ACDM partners.

GROUND HANDLING SUITE (GHS)

TAV Technologies Ground Handling Suite (GHS) calculates the current workloads of ground operations and determines the needs for employees and equipment, taking labor law requirements, legal obligations, and operational constraints in the shift into account. While GHS offers the possibility to create shift planning according to different KPIs, it also compares plans with each other and suggests the most optimum strategy to the user.

TAMS MODULES

RISING TECHNOLOGY

SLOT COORDINATION AND MANAGEMENT SYSTEM (SLOT)

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.

CAPACITY PLANNER (CPS)

TAV Technologies Capacity Planner System (CPS) offers a set of features for airport planners and capacity managers to make better assessments and decisions regarding airport capacity planning. It provides features to monitor and evaluate the capacity and usage for every resource type that can be either aircraft movement-related (e.g. runway, stand, gate) or passenger movement-related (e.g. passport kiosks, security check points, check-in counters and terminal capacity). The system gives the capacity planners an excellent overview of the load situation and possible alternatives for improved capacity planning. It provides what-if scenario evaluation capabilities to evaluate different flight schedule and capacity change scenarios as well as scenarios for the change in the rules and regulations. For each scenario, the system generates a result that helps users to see the problematic time intervals easily and therefore enables them to make the most efficient plan.

FLIGHT INFORMATION DISPLAY SYSTEM (FIDS)

Flight Information Display System (FIDS) is an essential tool for airport-passenger communication. The system offers passenger information on a wide range provided at the check-in counters, boarding gates, baggage claim areas, and throughout the terminal using different information displays in an understandable format for a diverse audience. TAV Technologies FIDS is a smart digital signage solution that provides an automated system that distributes and displays real-time flight information to both passengers and airport operational staff at the right place and right time. The system not only distributes flight information to a variety of public and staff display devices, but it also shows advertisements, media and data streams such as social media feeds, real-time weather forecast data, news and external web content."

PASSENGER FLOW MANAGEMENT SYSTEM (PFM)

Passenger Flow Management System helps to enhance passenger experience in the airport by reducing and eliminating bottlenecks. It improves ground operations for airlines and enables non-aeronautical revenue streams.

TRAVEL DOCUMENT AUTHORIZATION SYSTEM (T-DAS)

TDAS is a robust Bar Coded Boarding Pass (BCBP) validation system that helps airports run the BCBP validation process quickly and reliably. TDAS uses real-time data to instantaneously verify or deny passenger clearance against airports and airlines. It provides fast, efficient security checkpoint verification and ensures a valid boarding pass to access a zone based on business rules.

SIMULATION (SIM)

TAV Technologies Simulation (SIM) is a computer-based flow modeling application that helps airport operators to simulate passenger flow within the airport to detect bottlenecks and proactively organize airport capacity and resources. It also increases the predictive capacity to understand the future of the airport by analyzing and monitoring passenger flows in a virtual environment. The application shows the most realistic results analyzing the passenger load generator, passenger pattern, waiting time, and queue calculations. This feature simulates the airport operation helping operators to be proactive in identifying possible bottlenecks with clear visuals. SIM application helps to determine the best ways for fully utilizing airport resources at the lowest possible cost.

TAMS MODULES

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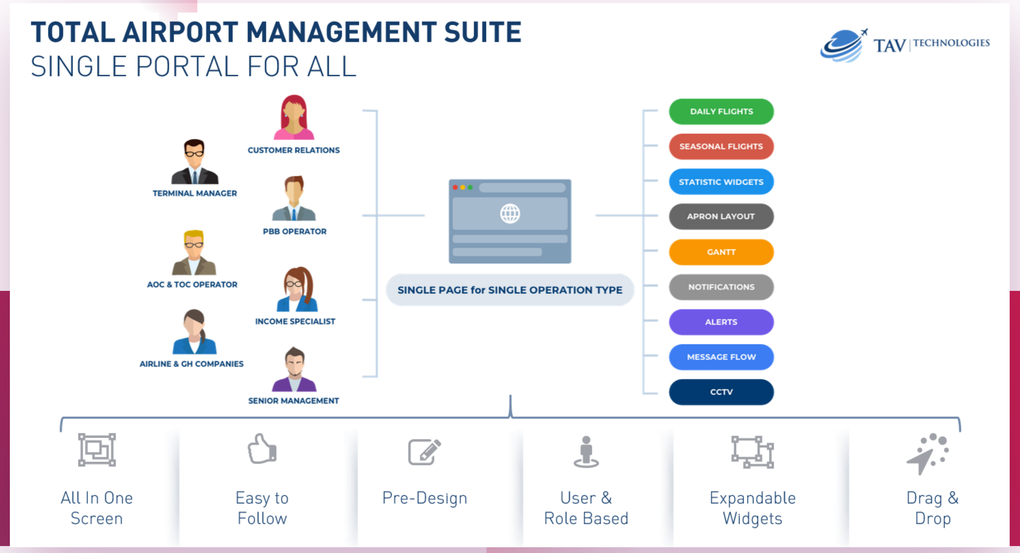

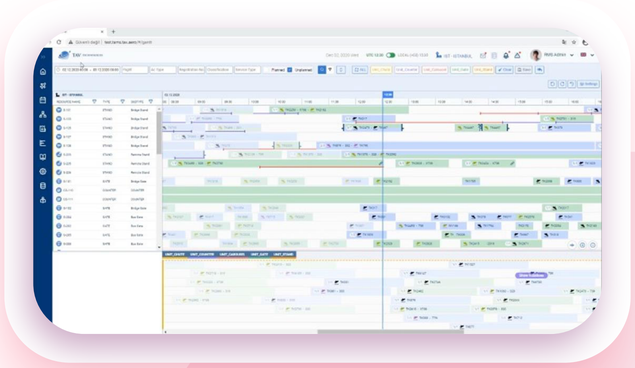

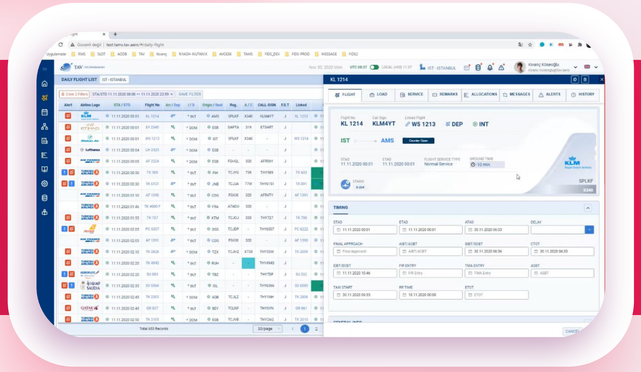

TAMS STRUCTURE

RISING TECHNOLOGY

TAMS PORTAL										KPI/REPORTING SERVICES
	CDM	RMS	GHS	CPS	CMS	FIDS	SIM	TDAS	QMS	SLOT
	Milestone Approach	Optimization	Mobile Resouce Mgmt.	What-if Scenario	Tariff Mgmt.	Design Editor	Airpot Flow Mgmt.	Passenger Verification	PAX Flow Monitoring	Slot Mgmt.
	Workflow Mgmt.	Resource Planning	Workflow Mgmt.	Capacity Planning	Aero & Non-Aero Billing	Device Mgmt.	Live Data Impact	PAX List	Heatmaps	Automatic Offer
	FLIGHT MANAGEMENT SYSTEM								Slot Mgmt.	
	DATA MANAGEMENT									
INTEGRATION SERVICE										
Dynamic Rule Management		Configurable Business Logic		Workflow Management		KPI Based Optimization		Real-Time Monitoring		
Advanced Security		User Management		Cloud Layer		Microservices & Containers		Artificial Intelligence & Machine Learning		
COMMON FRAMEWORKS										

ABOUT TAV | TECHNOLOGIES

40+ Products

40+ Airports

14 Countries

3 Continents

170 Million Passengers

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.

GROUPE ADP

Headquarters:
Turkey Istanbul

Other Offices

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

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