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*Airport-Solutions from
PSI Logistics: For greater
security and efficiency on
the ground and in the air*



Management is more than just Handling

Process-Know-how as the basis for optimal solution strategies

With more than 1,000 employees world-wide and revenues in excess of € 117 million, PSI AG ranks as one of the largest providers of specialist software solutions for energy, production and infrastructure management in the fields of logistics, air transport and energy utilities.

The broad operational capability of the company and the 10 locations in Germany combined with subsidiaries and representative offices in important growth markets such as Asia and Eastern Europe give PSI an optimal international operational readiness level and PSI enjoys commensurate success.

With this background and with the interdisciplinary technology transfer which typifies the company, PSI created PSI Logistics GmbH to be its specialist provider of complex software solutions for logistics processes. Within the overall range of activity, the Airport Solutions group is a key player. This group's development of innovative products for the air transportation sector combined with extensive industry knowledge gleaned over many years rank provide it with important competitive advantages, and make it a cornerstone of the future development of the enterprise.

*Our past is our experience
- eight of the ten largest
German airports use
solutions
from PSI Logistics*

PSI Logistics has been recognised as an expert in production management in airport operations for more than ten years. Building upon its experience of controlling the flow and sortation of luggage and of managing cargo facilities, PSI Logistics has provided a wide range of user-specific solutions to airports, airlines and handling agents. The large German airports and other important international air interchanges, for instance Amsterdam, Frankfurt or Vienna, rely upon PSI Logistics' freight and passenger dispatching systems. PSI Logistics is, therefore, one of the market leaders for Airport Solutions.

This success does not come about by chance. Because of professional project management and highly qualified engineers, programmers, technicians and consultants who have specialized experience PSI Logistics is completely focused upon the requirements of airport systems. Their knowledge of the business processes within airports, airlines and handling agents combined with an integrated, comprehensive and yet modular set of software products based upon the most modern technologies such as RFID, enabling PSI Logistics to quickly and flexibly generate individualised solutions. This applies equally to completely new systems or components of existing systems that need replacement.

Thanks to modern development procedures, systems can be developed and delivered without programming

modifications. Careful planning together with good interface management allows implementation to take place alongside existing live systems. PSI Logistics implementations are also problem-free with regard to integration into existing IT infrastructures because of the inherently flexible interfaces.

As a result PSI Logistics' Airport Solutions contribute not only to workflow transparency and optimization but also to operating cost reduction. In addition, legal requirements such as European Union regulation 2320, and applicable law concerning regulation of air safety and regulations issued by the International Civil Aviation Organization (I.C.A.O.) are fully provided for. Airport Solutions from PSI Logistics are, therefore, a future-proof investment.

*Our future lies in
innovation – we safeguard
long-term investments by
using the most modern
technologies and
intensively monitoring
market requirements*

Solutions for the three „A“'s of the airport world

Airport Logistics demands flexible, adaptable and integrated systems in a way very few other operations require. Against this background PSI Logistics has developed a range of modular flexible solutions for Airport operators, Airlines and ground handling Agents. Applications can be matched perfectly to individual requirements and can also be linked easily with one another to form holistic solutions.

Airports

The airport is the location for all operational processes involved in the dispatching of flight events. Apart from providing parking positions for air-planes, passenger terminals and cargo terminals an airport's centralised systems play a crucial role. Whether it be networks, wireless data or central baggage sortation, PSI Logistics can supply the necessary systems for today's (and tomorrow's) airports .

Agents

All ground operations centre upon flight events - whether they be

associated with passengers, with baggage sorting and loading or cargo. Efficiency of ground operations is the key to success for ground handling agents and also, therefore, for airports and/or airlines. Supported by suitable systems for passenger dispatching and for freight dispatching from PSI Logistics, ground operations are transparent and efficient.

Airlines

Airlines do not only operate in air. They must also perform many crucial tasks on the ground. They have a duty to their customers, both passengers and airlines, for a wide range of functions which they must execute to high quality standards. Whether it is for searching for a passenger's missing luggage or for the production of a load sheet, PSI Logistics has developed a suite of systems to help airlines achieve excellence in their operations.



Competent Solutions and more - the PSI performance spectrum for Airport Solutions

Complete performance spectrum makes holistic solutions possible

A multiplicity of scalable functions and integration capabilities mean that PSI Logistics' systems offer high availability and reliability of information in 24-hour operations. Using Enterprise Application Integration (EAI) interfaces between airport systems, airline hosts and other operative systems can be configured. In addition PSI Logistics involve operations personnel in the new systems processes immediately, by providing excellent training programs. The simple operation of the systems means that training course expenditure is low whilst operators quickly learn and retain the new system operations. PSI Logistics complements the quality of its systems by provision of all necessary services such as technical assistance during operation, maintenance, customisations and upgrades.

- Consulting in the design, realization and integration of IT systems
- Development of custom-made airport solutions
- Retrofit – adding to or adjusting existing IT installations
- Design of high availability systems
- Integration of software and equipment technology

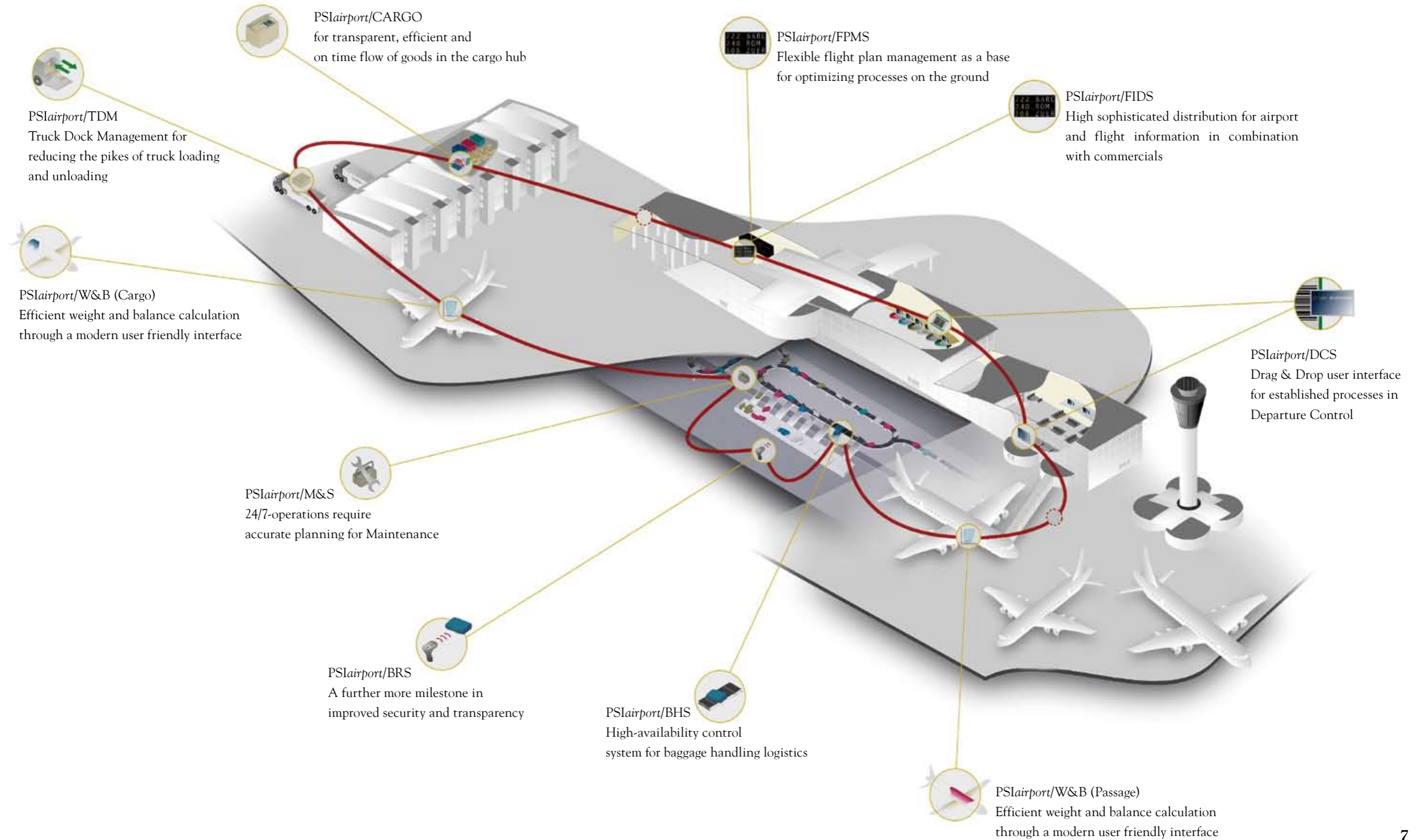
- General contractor for the supply of turnkey systems
- IT-Services
 - remote maintenance
 - 24/7-Support
 - operation
- Comprehensive training programmes
- Inclusive proposals for hardware and peripheral components



Overview of PSI Logistics products

Transparency and efficiency for ground processes

Efficient systems for deployment around the clock



PSIairport in detail

Comprehensive product range for airports

PSIairport/BHS Baggage Handling System

Automated luggage sortation improves efficiency at modern airports. Flexible, parameterised and timely task assignment optimize baggage flow and render it transparent. System back-ups, resource planning by task, individual items or cargo containers; PSIairport/BHS controls baggage from check in to aircraft loading. Used in conjunction with PSIairport/BRS, baggage can be securely confirmed as loaded into the aircraft.

PSIairport/BRS Baggage Reconciliation System

In accordance with I.C.A.O. annex 17, a baggage item cannot be carried without the associated passenger being confirmed on board. Many manual procedures have been created to deal with this requirement but not until automated procedures were created could maximum security be ensured. But PSIairport/BRS can do this and more. Different dispatch procedures have different requirements, and these are catered for with the use of various booking methods. Various terminals are supported giving the best solutions for differing requirements.

PSIairport/DCS Departure Control System

User friendly, intuitive operation, and drag & drop are all features of PSIairport/DCS. For many years dispatching personnel at check in and boarding have had to approximate weight & balance. PSIairport/DCS combines modern client-server architectures with established operational practices and current operating systems. These simple, but powerful, administration processes can easily handle, for example, the arrival of an unexpected aircraft type with minimal delay.

PSIairport/FPMS Flightplan Management System

Developed specifically for Frankfurt airport, the PSIairport/FPMS has extensive facilities for managing a flight plan. Whether for seasonal planning or short term adjustments of a daily plan, the operator always has a clear overview. A transparent, short-term and precise flight plan is vital for planning and controlling of ground operations. PSIairport/FPMS is the best way to optimize ground operations.

Special operational sequence

Process optimization by experience-based system approach

PSIairport/FIDS Flight Information and Display

The precise, correct and on time information of passengers and operating staff is essential for today's airports. Especially in an unfamiliar environment and under time pressure relevant information has to be transported fast, clearly and reliable but also attractive and appealing to passengers. Because of this the Flight Information Display System is a critical business application for any airport. With its proven, modern and flexible technology of PSIairport/FIDS PSI Logistics offers today's airports the opportunity to additionally gain revenue by selling advertisements within the layouts for Flight Information Displays. Using different concepts, all available and attached display devices can be used to offer both types of information to the passenger. Thus a refinancing of the initial system invest can be achieved in a short period of time.

PSIairport/W&B Weight and Balance

Whether used on a standalone basis, or integrated with PSIairport/DCS, PSIairport/W&B enables the load master to maintain the base data for a Load sheet in a way which has not been possible until now. He/she can

see luggage, passenger and freight data and rework his load sheet according to this. The Single Screen Interface (SSI) gives the load master a constant overview of the load planning status.

PSIairport/M&S Maintenance und Service

Avoidance of disruption to technical assets is an important issue for operators. Daytime repairs, rather than overnight, is the watchword. In this way aircraft availability is increased and the cost of delays and/or expensive repairs is reduced. Using PSIairport/M&S the planning and controlling of small tasks right up to the management of whole change projects can be managed. The use of mobile terminals for documentation of the completed tasks is a key feature as is the real-time integration of asset management systems. Whether to control a repair, or to order spare parts, PSIairport/M&S has all necessary modules fully integrated.

At the Ground and in the Air

Future-oriented solutions for air cargo handling

PSIairport/CARGO Air Cargo Handling System

Optimizing ground handling processes at the Cargo hub. Increase efficiency and transparency with PSIairport/CARGO and decrease time of throughput. State-of-the-art IT integrated in the airport IT infrastructure develop hidden potential. High level sorter, automated transport and fork lift controlling systems are important parts of modern cargo hubs. But at least the integration of all the relevant systems, the automation level and the manuell ground handling guarantee optimized processes and fast throughput with low staff. PSIairport/CARGO supports the FAB (flown as booked) performance, reduces off loads and makes sure that a fast return of investment (ROI) is regular.

PSIairport/TDM Truck Dock Management System

One of the key facts of deceleration around the throughput process in a cargo hub are the pikes of truck loading and unloading at the Road Feeder Service (RFS). PSIairport/TDM supports decreasing the pikes because each freight truck is assigned to one or more tasks (loading, unloading, and so on). In case of recurrent tasks, task models can be assigned to PSIairport/TDM so

that only the variable data, such as the registration number of the truck in question, need to be entered into the system. All required definitions are already available in the system. Once the data entry is complete the system checks whether the required loading dock is free. If the loading dock is occupied, the PSIairport/TDM allocates a parking dock in the parking area of the cargo hub. Then the PSIairport/TDM prints out a job slip for the freight truck. This slip contains information on the loading dock or the coordinates of the parking dock. If the relevant loading dock becomes available whilst the freight truck is parked up, the driver gets the information that he can now proceed to the allocated dock. This information can be displayed on large display screens outside the yard or can be sent in the form of an SMS to the drivers mobile phone.

The advantages of PSIairport/TDM are obvious:

- Minimum effort required for coordination processes outside the hub
- Minimum amount of wasted time between processes as a result of realtime assignment of freight trucks
- Reduced waiting times for freight trucks, allowing transport providers to maintain favourable conditions

Solutions in practice based upon experience



Many years of project experience and the closest possible customer relationships are the secret to running successful projects, now and in the future. New solutions are developed, and established products are improved, through encouraging constant input from customers and recognizing their expertise. Meeting the day-to-day requirements of our customers are the yard-stick by which advancement and the quality of the product range of PSIairport are defined and guaranteed.

PSI Logistics success is reflected in its customer loyalty over many years. No past PSIairport user transferred to another solution. Conversely PSIairport products have replaced many other older systems. The keyword here is "Retrofit". The replacement of automatic baggage control systems under operating conditions is a particular specialism for PSI Logistics. This task calls for special techniques to maintain service, whilst systems which must be available 24 / 7 are being replaced.

Always up-to-the-minute - and even further. PSI Logistics constantly monitors and evaluates current and future technical developments such as RFID or automatic robot-supported luggage loading. The latter technology is, for example, a topic that many airports are evaluating at present. PSI Logistics already has a capability in this respect within PSIairport/BHS, which provides for optimal integration of transport

containers into the existing transportation network through robot utilization. Only in this way it is economical to automate transport container handling.