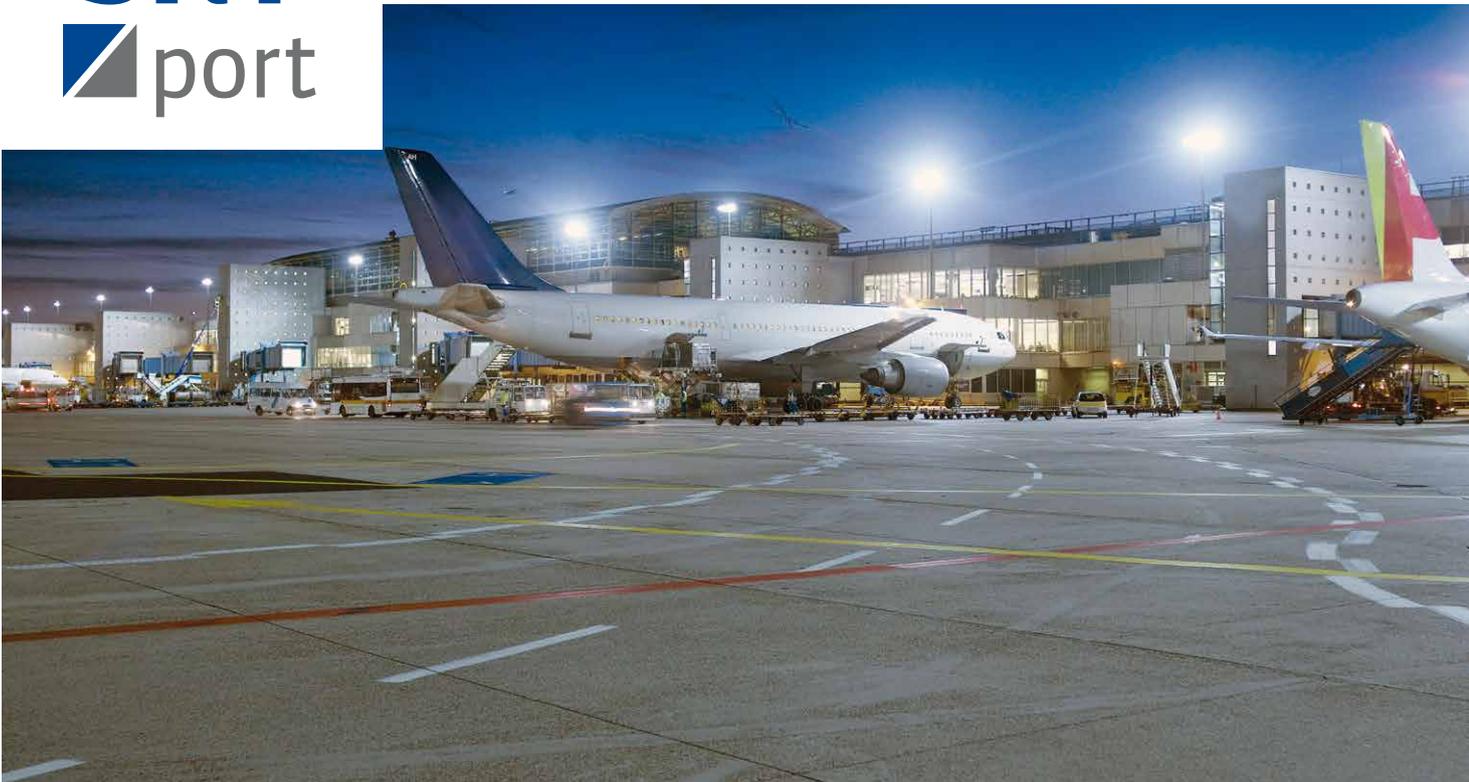![ISO Software Systeme - Trust in IT-Engineers]

Airport Operations

SKYport

Web-based Airport Management

powered by
DYNAMIC
Components

Airport Operations

Accurate, real-time information is the key element of successful airport operations. Numerous parties are involved in running an airport. Internal staff as well as business partners, airlines and authorities depend on this data to play their part in an airport's integrated business processes.

SKYport AODB

SKYport AODB is the central hub to store, process and distribute all flight related information. Based on an ORACLE database server, SKYport ensures availability as well as integrity of all operational data and provides secure access to this data for all legitimate users.

Intuitive, browser-based GUIs, exceptional integration capabilities and easy adaptation to customer-specific demands make SKYport AODB the ideal and cost-effective single source of truth for airports of all sizes.

User Management

SKYport AODB is equipped with an independent user management enabling you to set up user privileges for single users or user groups. This ensures efficient procedures for data distribution. All users have access to precisely the information required to perform their duties.

Master Data Management

Reliable master data is the basis for using software systems efficiently. SKYport AODB is equipped with a master data module that can be easily customized to reflect the customer's needs.

The master data module supports daily operations with reliable data for airlines, flights, and airport facilities. For convenient data entry, all master data is available in pull-down menus or auto-completers.

All entries of operational data are checked against the respective master data in order to guarantee high-quality information.

Seasonal Flight Plan

The seasonal flight plan offers the first wide-angle view of future airport capacity and resource allocation. SKYport AODB lets you create seasonal flight plans interactively. Alternatively, SKYport Connect offers interfaces to download and import your seasonal flight plan from regional flight plan coordinators or airline systems.

Resource usage for gates and parking positions can be planned on a season basis. The automatic composition of rotations supports the precise planning of apron occupancy. Multiple simultaneous seasons reflect different planning states.

Daily Flight Plan

The daily operational flight plan is automatically generated from the seasonal flight plan and allows managing scheduled traffic as well as general aviation flights interactively.

The user interface of SKYport Daily Flight Plan presents information in both tabular and detailed format. The table view may be easily configured according to the user's specific business processes. Simultaneous data entry from different workstations is, of course, fully supported.

SKYport provides the user with many input assistance tools like pull-down menus, auto-completers for master data references, time-stamp entries by mouse clicks and color coding for missing information (i.e. block time entered but aircraft registration missing).

The SKYport Daily Flight Plan supports both IATA and ICAO standards for data entries. All time entries can be fed and displayed in UTC or local time.

Flight detail screens deliver insight into supplementary information like transfer passengers, travelers' final destinations or incoming IATA messages.

Configurable filters can be used for retrieving both current and historical flight data.

Think outside the box

- Did you know that SKYport customers use SKYport AODB to manage not only planes but also trucks and even ships?
- The quality features of SKYport allow for a flexible management of all traffic in your operation.
- Airports use the daily flight plan to manage road feeder service trucks bringing in or picking up cargo.
- Some customers even manage their inland port ship movements with the SKYport AODB.

SKYport AODB Add-ons
SKYport Resources

SKYport Resources adds resource management capabilities to your SKYport AODB, offering easy administration of gates, parking positions, baggage belts and many more.

Resource preferences can be set for any flight and are displayed in a diagram. During daily operations, all resource allocations can easily be altered to any desired value using drag and drop.

Automatic conflict detection ensures that users can allocate only those resources that are suitable for a specific flight.

SKYport Resources is fully integrated with the SKYport AODB. All changes made in the resource allocation are stored directly to the AODB and data is available for all users in real time.
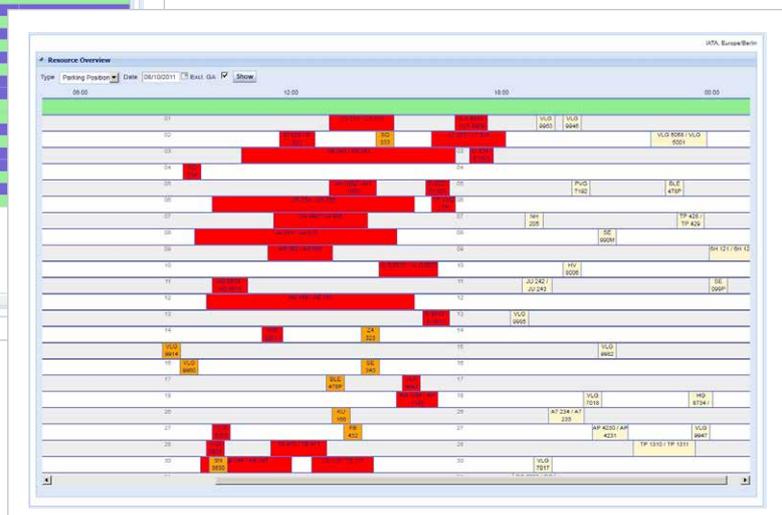
SKYport Situational Maps

While the daily flight plan tables are very efficient for entering and managing specific flight information, some situations may still require a different view on daily flight operations.

For larger airports and airport operation control centers, SKYport Situational Maps offer an intuitive overview of airport operations.

Real-life representations of your airfield are used to display flight movements, aircraft stand allocations and potential resource allocation conflicts. All data displayed in the situational map is real-time data from the AODB, ensuring highest accuracy and a quick but comprehensive view on your current operational situation.

Besides the airfield status, SKYport Situational Maps can also be used to provide a quick overview of airport resources. A map of your terminal can be used to display availability of resources (i.e. boarding gate unavailable due to planned maintenance). To provide real-time information on airport infrastructure SKYport Connect can interface with your integrated building management system or any other data source providing operational information.

SKYport Activities

SKYport Activities adds ground handling management functionality to the SKYport AODB standard.

Existing contracts with airlines can be used to define the mandatory and optional ground handling activities per airline/flight/aircraft type.

Upon generation of the daily flight plan, the SKYport Activities rules engine will also generate a set of work orders outlining mandatory and optional activities per flight for the supervisor.

These work orders can either be printed or accessed via a web GUI using mobile devices such as rugged tablet or smartphone.

The captain or ramp agent can sign optional work items, providing a reliable statement of work.

The use of mobile devices has one major advantage: Airports will get up-to-date information of the actual time needed to perform defined ground handling tasks, making these available for billing or cost accounting purposes as the supervisor can easily create timestamps for start and end time of every activity.
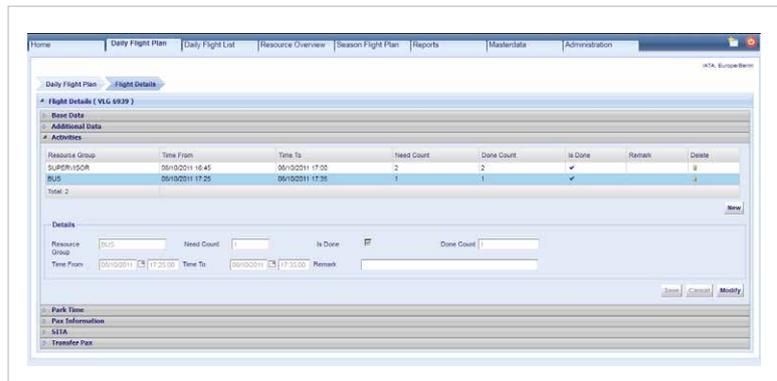
SKYport Connect

SKYport Connect, the integration suite of the SKYport AODB, guarantees real-time data exchange with external systems covering multiple protocols and data formats. SKYport Connect allows for rapid integration of new interfaces and processing rules.

SKYport Connect supports more than hundred interfaces to third-party systems of airport operators, to business partners or public information platforms.

Available data exchange procedures include airport specific standard interfaces as well as individually customizable interfaces for local requirements.

SKYport Connect Examples

- SITA Messages
  Send, receive and process standardized IATA message formats via SITATEX. Supported message types include MVT, LDM, PTM as well as FFM, FSU, SAM/SRM and many others.
- Coordinated Flight Plans
  Initialize seasonal flight plans and import daily updates from regional coordinators or airline systems
- ATC Tower Systems
  Communication with local Air Traffic Control based on ADEX-P or AFTN
- Provide real-time data for third-party systems i.e.:
  - Human Resource Management System
  - Flight Information Display Systems
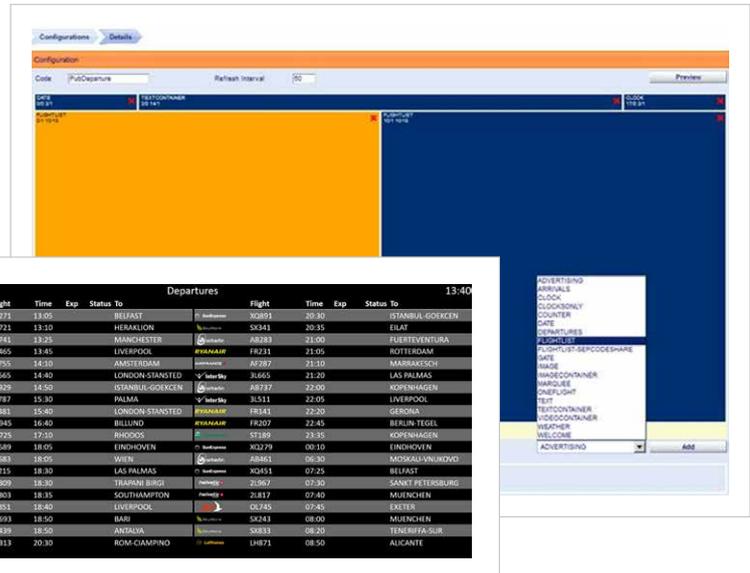 - Gate Access Verification
  - and many others

SKYport FIDS

Passenger Experience – a topic that is trending throughout the industry. With flap-boards or led-boards moving out and being replaced with flat screen monitors, multimedia FIDS applications are taking over.
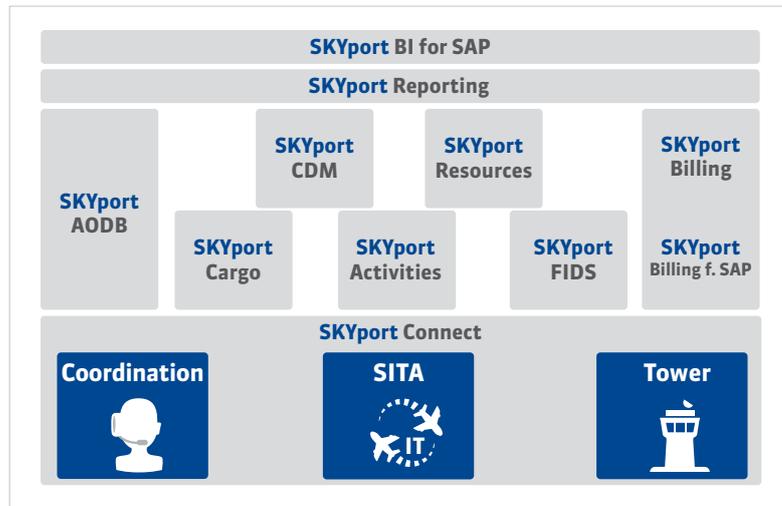
SKYport FIDS, a browser-based Flight Information Display System, offers a large variety of display components to create media-rich output to your passengers.

Create added value for your passengers by displaying destination weather at the boarding gate, provide destination information or incorporate video advertising on FIDS screens. With SKYport FIDS, all this is just a mouse click away.

SKYport FIDS is directly integrated with the SKYport AODB, thus ensuring that all data is displayed in real time with no additional interfaces. Update mechanisms have been developed in a very efficient way, which keeps the workload of the FIDS client at a minimum.

Supply FIDS information to any screen in your terminal using inexpensive and energy-efficient single board computers like the Raspberry Pi.

SKYport FIDS comes with a wysiwyg layout editor which enables your staff to create media rich FIDS screens on the fly.

	SKYport BI for SAP		
	SKYport Reporting		
SKYport AODB	**SKYport CDM**	**SKYport Resources**	**SKYport Billing**
	SKYport Cargo	**SKYport Activities**	**SKYport FIDS**	**SKYport Billing f. SAP**

SKYport Connect

Coordination | **SITA** | **Tower**

See our SKYport Portfolio – online

Dedicated to Airport Success since 1987

4 Continents

46 Airports

338 Mio. Passengers p.a.

3.7 Mio. Movements p.a.

The Company

The ISO Software Systeme GmbH has established a solid reputation as a major player in IT consultancy, software development and related services. Developing software with a focus on Java, Microsoft and Oracle make up our core competence – both for our own products and our customers. The expertise of ISO Software Systeme in the aviation industry include: SAP consulting and development for airports, IT solutions for airport operators, Air Traffic Control and airlines as well as ground handlers.

Software solutions from ISO are in use at more than 40 airports worldwide – from the regional airport in Dortmund to major airports in Europe, such as Zurich, to the major international airport in Bangkok.

A total of 400 permanent employees work at several sites throughout Germany and in associate companies in Austria, Poland, Canada and the UAE. The companies ISO Software Systeme, ISO Travel Solutions and ISO Professional Services of the ISO-Gruppe, with their respective offices in Nuremberg, Munich and Offenbach, are certified to the requirements of the quality management system in accordance with DIN EN ISO 9001:2008.

ISO
Software Systeme
Trust in IT-Engineers

Contact

ISO Software Systeme GmbH
Eichendorffstrasse 33
90491 Nuremberg / Germany

Tel. +49 911 - 99 594-0
Fax +49 911 - 99 594-129

info@iso-gruppe.com
www.iso-gruppe.com

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02|ISS|16

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