



SKYport Billing



Aeronautical Billing for Airports

powered by
DYNAMIC ■
Components



Market Leader for Airport Billing and Ground Handling Billing

More than 30 installations make ISO the European market leader for airport billing and ground handling billing systems. In addition, ISO has deployed its systems to airports/ground handlers in America, Asia and Africa. More than 25 years of experience in airport charges and ground handling contracts make airport billing one of our core competencies.

ISO's airport competence ensures benefits far beyond the standard implementation of new software. Our focus is on business process optimization and system integration.

Your benefits:

- save administration overhead by streamlining your invoicing processes; reduce manual calculations and media gaps throughout your system landscape
- invoice quicker, more frequently and more accurately; realize your revenues earlier and reduce clearing efforts
- send your invoices not just as paper but also electronically; your airline customers will appreciate this service
- save IT costs by replacing costly customer-tailored systems with standard software
- make your billing data available for business intelligence for more insights in your airport's potentials

ISO offers two alternative solutions for airport billing. We thus focus on your preferred technology.



Two Alternatives for Airport Billing/ Aeronautical Invoicing

Most airports today have an off-the-shelf ERP (enterprise resource planning) system, SAP ERP for instance, to integrate business processes and data. Moreover, the airport billing system/aeronautical invoicing requires flight movements data from the AODB (airport operational database).

One integrated view – two ways for airport billing / aeronautical invoicing:

- SKYport Billing is closely integrated with the AODB. An automated upload process enables the billing system to operate with data from the AODB. A rules engine calculates the applicable fees and creates the corresponding bill items, bills and receipts. Financial data is transferred to your accounting system using interfaces.
- SKYport Billing for SAP forms a module of your ERP system. Any operational data will be uploaded from your AODB to SAP.

SKYport Billing

The billing module of SKYport is built on the AODB database. Even when using a standardized upload procedure, SKYport Billing enables billing processes that bring ramp control and billing closer together. All uploads from operational systems to SKYport Billing and all calculations from the rules engine are logged, ensuring a seamless audit trail. SKYport Billing supports both credit billing (most commercial airlines) and cash billing (general aviation).

Calculating in two steps:

1. Determine the charges to be calculated

On the basis of selected attributes of a flight, the system determines the extent of relevant charge types that shall be calculated. The list of charge types and their descriptions (e.g. "Landing Charge", "Charge for use of CUTE and FIDS") may be maintained by the user as well as their relation to certain flight attributes (e.g. passenger charges only for commercial flights).

2. Calculate the charges

The calculation of the amounts to be actually invoiced is performed by a flexible rule engine. Of course this engine enables the handling of customer specific conditions like rebates or surcharges.

The result of the calculation is stored in a separate table (Bill Items) without relation to a later invoice. These bill items may be revised and amended before producing the final invoice.

Think outside the box

Did you know that SKYport Billing not only covers aeronautical revenue?

The SKYport Billing rule engine can easily be configured to calculate non-aeronautical revenue such as airport pass issuance, rent or any consumption-based charges like telephone or energy.

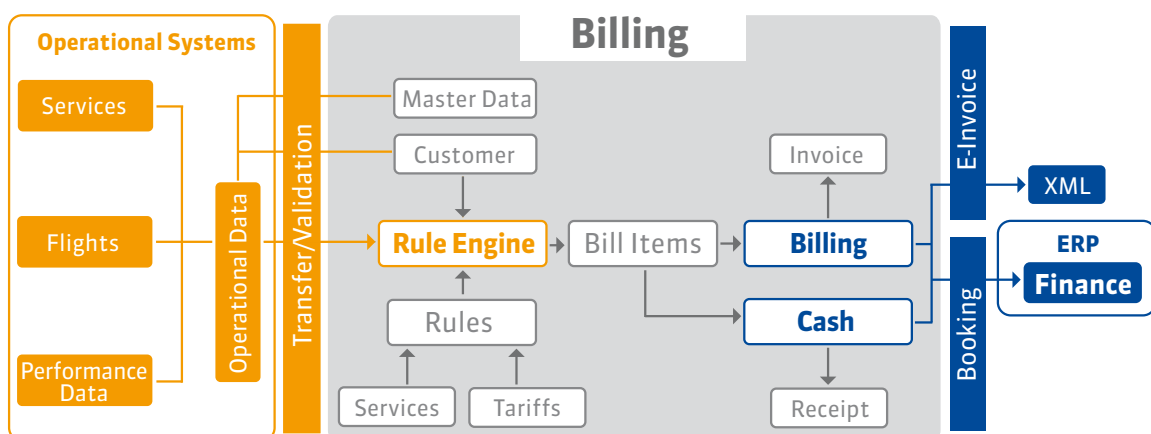
Two ways of producing invoices from bill items:

1. Commercial Invoicing

The user may determine the extent of items to be invoiced by several parameters like

- date of supply
- customer
- charge types

Within such a selection, all items of one customer are collected and stamped with a unique serial invoice number. These invoices are stored in a dedicated database table; the respective bill items are updated with a link to their invoice and marked as "invoiced" to prevent multiple processing.



Calculating air traffic charges is the core function of SKYport Billing. Charges are calculated automatically on the basis of rules, most of which are maintained by the user through the GUI.



2. Cash Settlement

All bill items referring a certain flight are combined to a cash receipt. The user may influence the cash settlement process in a dedicated dialog:

- insert additional items (e.g. services on demand)
- modify the customer
- determine the currency of payment
- issue a charge note without actual payment
- complete the transaction and print the receipt

As in commercial invoicing, the system inhibits an item from being invoiced twice. The invoice amount is recorded as cash payment simultaneously.

Cash box management enables capturing cash revenues and expenditures, for example to record the transfer of money from the local cash box to a central account.

For the transfer of invoices to a financial accounting system a standard interface is provided. It produces a text file and determines the accounts to be used by

- charge type
- tariff
- nature of flight
- flight origin / destination (e.g. domestic or international)
- tax rate

This interface may be adapted to the requirements of the ERP system in use.

SKYport Billing for SAP

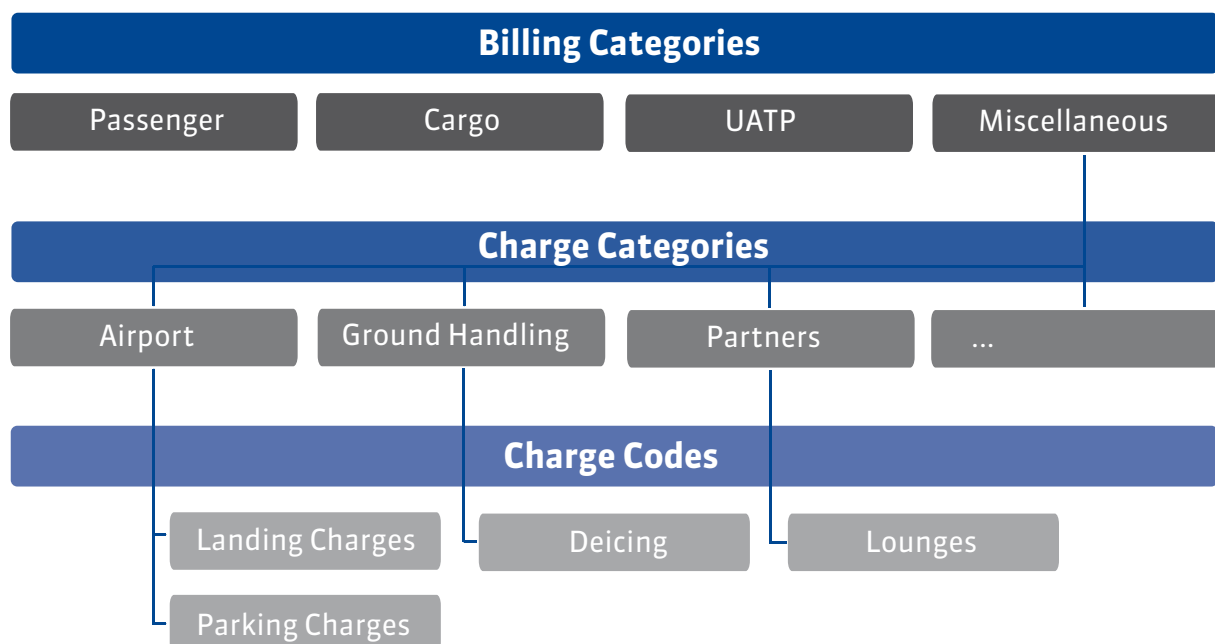
SKYport Billing for SAP enables SAP ERP to upload flight data from an AODB and make the data available for pricing and invoicing in SAP SD.

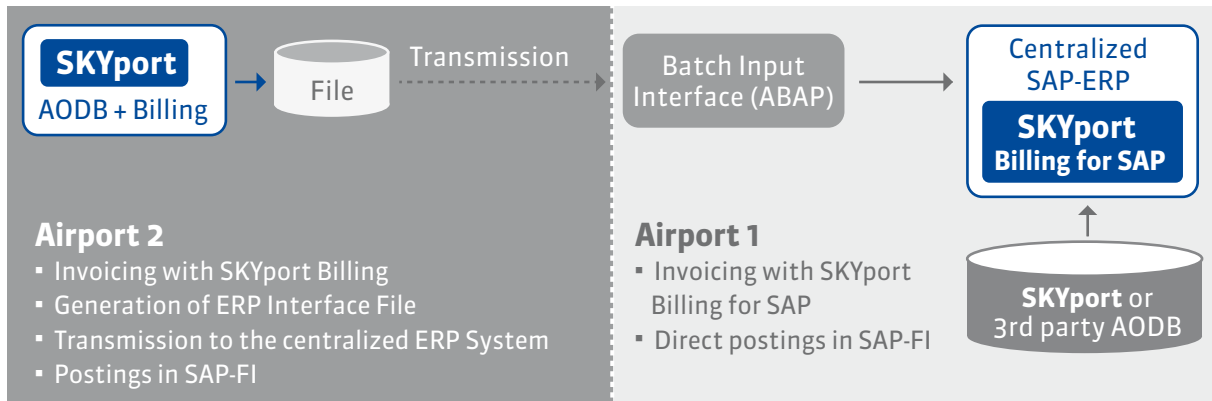
The SKYport Billing for SAP interface module uses a graphical interface to give full control of the status for uploads from your airport operations systems.

SAP offers very flexible functions for the modeling of your airport charges (landing charge, passenger charge, parking charge, infrastructure charge, ground handling agreements, etc.) and processes. Even standard ground handling agreements (SGHA) according to IATA AHM 810 can be managed.

SAP is the market leader for business software. No other ERP system available for airports that can compete with SAP ERP. SKYport Billing for SAP is also certified by SAP ("Powered by SAP NetWeaver").

Thanks to its SAP standard functions, the software is fully integrated with the SAP world. This saves much reconciliation work between systems that used to be separated. Direct posting to accounts receivables and managerial accounting moves airport billing and accounting closer together.





SKYport IS-XML

By replacing the existing IATA Clearing House technologies with IS-XML, IATA created an industry standard for electronic invoicing of aeronautical and non-aeronautical billing.

IS-XML is mandatory for all airlines. IATA recommends that airlines insist on receiving invoices from their suppliers (i.e. airports and ground handlers) in IS-XML format.

ISO's SKYport IS-XML is fully IATA IS-XML-compliant, enabling our customers to supply their airlines with electronic invoices. SKYport IS-XML incorporates all predefined charge categories and allows for PDF attachments.

IS-XML defines the data format as well as the structure of the invoicing process.

Airport and ground handling charges usually belong to the billing category "Miscellaneous".

IS-XML, profoundly influences existing business processes as one invoice can no longer contain charges from different charge categories. According to the IS-XML standard, participants have to issue one invoice per charge category.

Any supporting documents can be attached to the IS-XML transmission using PDF attachments.

Can the approaches be combined?

SKYport Billing and SKYport Billing for SAP

Yes, this makes sense for a multi-airport operator. Copenhagen Airports A/S, for instance, manages not only Copenhagen airport but also Roskilde airport. Copenhagen uses SKYport Billing for SAP, because of the advantages of the close integration with the SAP system. Roskilde uses SKYport Billing, because at Roskilde the focus is more on operational requirements.

Stuttgart Airport has a similar scenario and uses SKYport Billing for SAP with great success. A subsidiary company at the remote Baden Airport also uses SKYport Billing for SAP with a strong online integration of the SKYport AODB. An online interface uses SAP's remote function call capabilities to provide a cash imbursement process which is completely controlled by the SKYport AODB. GAT users can create cash receipts from SKYport Billing for SAP without even logging on to the Stuttgart system. Even cancellations and recalculations can be managed directly from the AODB.





Technology

All products of the SKYport Suite were developed using Dynamic Components, ISO's framework for engineering and developing scalable, high-performance applications to various industries.

SKYport relies on LINUX and Oracle industry standards. All GUIs are browser-based and do not require any additional installation on the client computers.

Customization

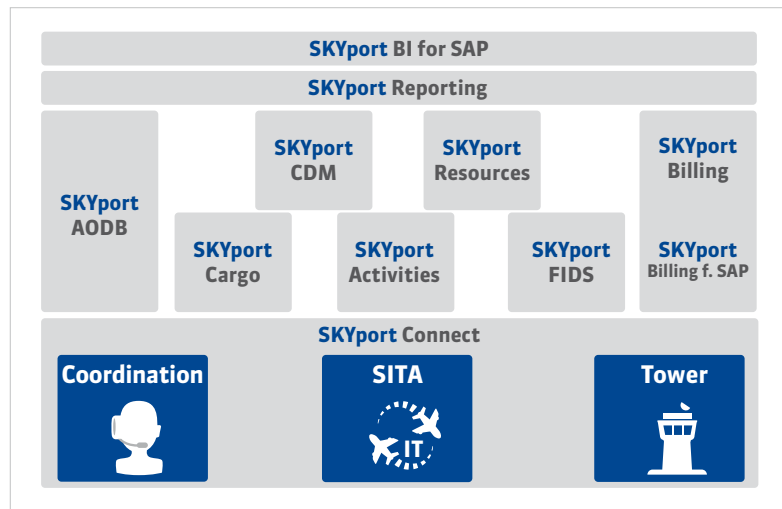
SKYport has been developed with changing requirements in mind. All applications can be customized to your needs using XML and CSS. All user interfaces are multi-lingual.

Quality Features

- high reliability and performance by using industry standards
- easy-to-use graphical user interfaces
- high level of data security and validation
- outstanding integration abilities
- easy adaptation to customer specific requirements by multiple levels of customizing
- all necessary implementation and maintenance services offered by ISO Software Systeme

We care for your needs





See our SKYport Portfolio – online

Dedicated to Airport Success since 1987

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.

4 
Continents

46 
Airports

338 Mio. 
Passengers p.a.

3.7 Mio. 
Movements p.a.



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