



Electronic Invoicing With XML4aero



You always have been looking for ...

- an integrated, complete solution for the information technology of your airport?
- optimising your business processes?
- a cost-effective standard solution instead of expensive individual developments
- a software solution, that keeps on growing with your business?
- the experience of numerous international airports for your enterprise?
- co-operation with a reliable software partner?

Then you should contact us!



ISO Software Systeme

Eichendorffstraße 29

D-90491 Nuremberg

Tel. +49(911)/ 99 59 4-0

Fax +49(911)/ 99 59 4-129

e-mail: iso@isogmbh.com

<http://www.isogmbh.com/>



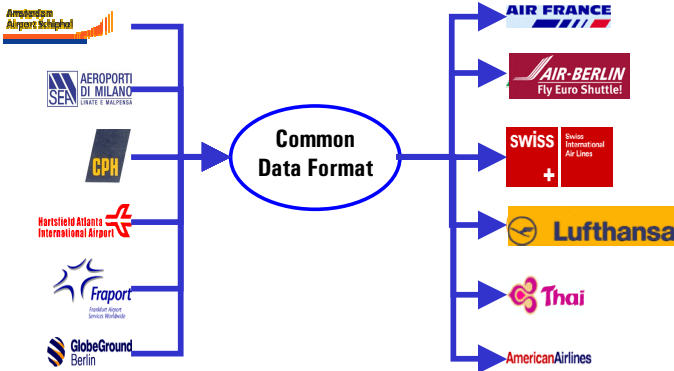
Approach

Unlike other industries the airport business has not yet established standards for commercial data communication. Having applied well accepted rules for information exchange in the operational area for a long time, airports and airlines still relied on individual, proprietary formats in the back-office. This affected B2B relations between airports and their business partners by high costs and poor information quality.

XML4aero shall put an end to this language confusion now. XML4aero is based upon the accepted standards for electronic business processes expanding these standards by the necessary aeronautical data.

Overview

- Application-neutral data format for airports and airlines
- Defined as XML Schema
- Transfer of
 - Invoice data
 - Flight data
 - Master data
- Already Accepted by
 - Lufthansa
 - Air Berlin



XML As Technical Basis

- International accepted standard for data exchange
- Data and document format of the future
 - Application-neutral
 - Media-neutral
- Practical advantages of XML
 - Separation of content and presentation of data
 - Human-readable, self-documenting text documents
 - < Aircraft >
 - < Registration > DCABI </Registration >
- Optimised for the Internet



Benefit For The Airline

- Supports automated invoice processing
 - Check against operational data
 - Check against airport tariffs
 - Automatic posting
- Easy conversion into other formats via XSLT, e.g.
 - Text
 - Excel
 - Database tables
 - HTML
- Application development supported by standard tools

The screenshot shows an XML4aero invoice for Flughafen Nürnberg GmbH, dated 17.09.2004. The invoice number is 010002954. The table below represents the data from the screenshot:

ARR	OnBlock	From Pax	DEP	OnBlock	To Pax	Reg	MTOM	Service	Description	Num	Single	Total
AB 3033	01.09.21.50	IFNC 160	AB 3612	01.09.03.09	LPA 166	DABAF	74.999	VAR-E	Variable Landegebühren	166,00	7,44 EUR	1.235,04 EUR
								50800	Cute-Entgelt f. abgehende Pax	166,00	0,41 EUR	68,06 EUR
								ZIBPAX	Zentr. Infrastrukturentgelt pro Pax	1,00	957,36 EUR	657,36 EUR
AB 8257	01.08.23.01	ACE 182	AB 3742	01.09.03.48	IKOS 180	DABBA	74.999	VAR-E	Variable Landegebühren	180,00	7,44 EUR	1.339,20 EUR
								50800	Cute-Entgelt f. abgehende Pax	180,00	0,41 EUR	73,90 EUR
								ZIBPAX	Zentr. Infrastrukturentgelt pro Pax	1,00	712,80 EUR	712,80 EUR
AB 8545	01.08.23.20	STN 136	AB 8384	01.09.04.43	PMI 145	DABAE	74.999	VAR-E	Variable Landegebühren	145,00	7,44 EUR	1.078,80 EUR
								50800	Cute-Entgelt f. abgehende Pax	145,00	0,41 EUR	59,45 EUR
								ZIBPAX	Zentr. Infrastrukturentgelt pro Pax	1,00	574,20 EUR	574,20 EUR
AB 3149	01.09.00.03	CFU 182	AB 3538	01.09.04.09	FAO 177	DABAF	74.999	VAR-E	Variable Landegebühren	177,00	7,44 EUR	1.318,88 EUR
								50800	Cute-Entgelt f. abgehende Pax	177,00	0,41 EUR	72,57 EUR
								ZIBPAX	Zentr. Infrastrukturentgelt pro Pax	1,00	700,92 EUR	700,92 EUR
AB 3685	01.09.02.10	AIXT 181	AB 3484	01.09.04.59	LEI 157	DABAG	74.999	FIX31-998	Fixe Landeentgelte	1,00	845,00 EUR	845,00 EUR
								VAR-E	Variable Landegebühren	157,00	7,44 EUR	1.168,08 EUR
								50800	Cute-Entgelt f. abgehende Pax	157,00	0,41 EUR	64,37 EUR
								ZIBPAX	Zentr. Infrastrukturentgelt pro Pax	1,00	821,72 EUR	821,72 EUR
AB 3743	01.09.09.17	IKOS 181	AB 358 P	01.09.09.35	DTM 0	DABBK	74.999	FIX31-998	Fixe Landeentgelte	1,00	845,00 EUR	845,00 EUR
								ZIBPAX	Zentr. Infrastrukturentgelt pro Pax	1,00	0,00 EUR	50,00 EUR
AB 3485	01.09.12.48	AGP 170	AB 8284	01.09.14.27	F00 135	DABAG	74.999	FIX31-998	Fixe Landeentgelte	1,00	845,00 EUR	845,00 EUR
AB 3539	01.09.21.05	FAO 184	AB 4686	02.09.03.06	RHO 147	DABNT	74.999	FIX31-998	Fixe Landeentgelte	1,00	845,00 EUR	845,00 EUR
								VAR-E	Variable Landegebühren	147,00	7,44 EUR	1.093,88 EUR
								ABS	Absstellentgelte	1,00	180,00 EUR	180,00 EUR
								50800	Cute-Entgelt f. abgehende Pax	147,00	0,41 EUR	60,27 EUR
AB 8595	01.09.22.48	STN 150	AB 2010	02.09.03.58	SSH 135	DABAA	74.999	VAR-E	Variable Landeentgelte	135,00	7,76 EUR	1.047,60 EUR
								Keine	Cute-Entgelt f. abgehende Pax	135,00	0,41 EUR	56,36 EUR

Benefit For The Airport

- Cost effective electronic billing
 - To many customers in an equal format
 - Only one implementation per airport
 - No airline-specific variants
- Many possible transfer media
 - E-Mail
 - File-Transfer
 - Web
 - Disk
- Possible future applications

Other Supported Business Processes

Fully integrated into the SYK-Base landscape, XML4aero supports other operational business processes besides electronic invoices as well:

- Exchange of operational data among business partners
- Integration of operational data into the company's website or intranet
- Easy creation of HTML pages for passenger or staff information

You are welcome for a personal consultancy about the many ways to integrate XML4aero into your IT landscape.