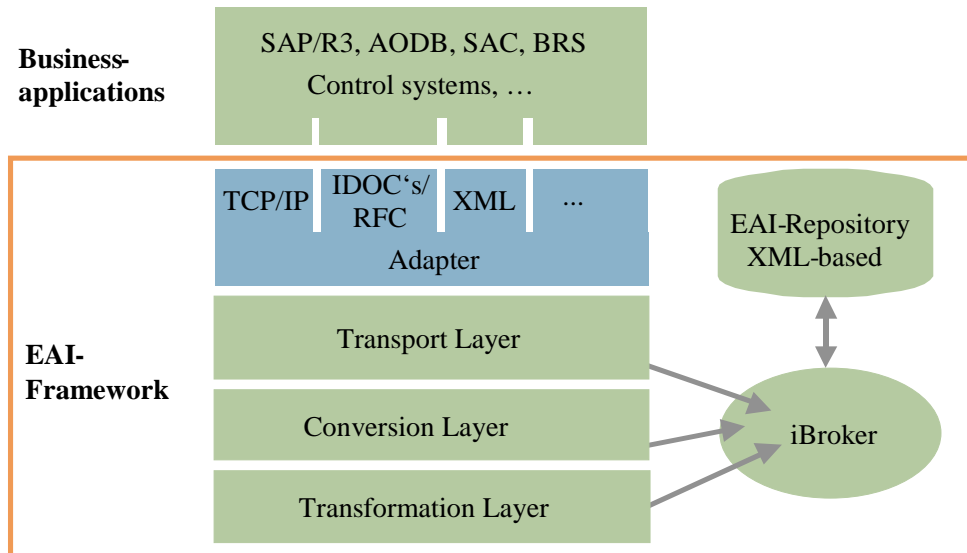


PSIairport/EAI

Enterprise Application Integration



The vision, to provide and to control all business processes of a company with the help of one universal IT-System is identified as an illusion.

The IT-structure of many organisations specially those in the world of airports consists of many single systems (“best-of-breed”). Planning of Resources, AODB or baggage reconciliation systems - only three of various IT-systems at modern airports. The importance of the integration of inhomogeneous applications is growing rapidly. Today costs for the integration of IT-systems are more than 35% of the whole IT-Budget of bigger companies. And the tendency is still growing.

The answer to such challenges is given by PSIairport/EAI, which connects specialised airport applications with the help of normalised data streams: The advantages of PSIairport/EAI are

- the avoidance of bilateral, individual Point-To-Point-Interfaces,
- higher transparency through central monitoring,
- homogeneous administration,
- efficiency in changing the interfaces because of changing the business processes,
- platform independency.

PSIairport/EAI -Framework

The framework of PSIairport/EAI provides an infrastructure for integration. It enables the implementation of business processes over barriers of systems and platforms.

The coordination of data exchange between applications is done by a message broker (iBroker) in the framework.

The connection between PSIairport/EAI and the various applications is

done with help of adapters. Those adapters encapsulate the application-specific formats and application-specific semantic.

iBroker

The knowledge about data streams is documented in the repository of the iBroker. This knowledge consists of information about the data structure, data routing and – if necessary – the data transformation. The description of the data in the repository is done independently of any application with XML. The services of the iBroker handle the information of the repository during runtime and coordinating then the data streams between the connected systems. The incoming data streams are converted in an application independent format. After this, they are transformed with the help of transformation rules. The transport layer guarantees the reliable transmission. Several methods for handshaking and acknowledgment are available.

Adapter

Typically the connected systems specify, which (individual) transport protocols should be used for data exchange. The Framework of *PSIairport/EAI* provides individual adapters for the connection between the system and the iBroker. The adapters define the format and the protocol of transmission.

Several pre-configured adapters are available for the connection to SAP, BagMessage and other standardised applications.

Administration / Monitoring

The incoming and outgoing data streams are journalised automatically in standardised ASCII-files. These files can be automatically archived too. With the help of the administration clients, the protocol-files can be viewed and analysed. Failures in processing of the adapters can be supervised by a central working place. For every data structure of the repository a simulation of the data processing can be done for testing.

A special simulation dialog is available for the comfortable creation of test data. For the administration of the repository is done with the help of a special transformation- and structure-editor.

System Requirements

PSIairport/EAI is available for Windows NT/2000/XP/2003, Linux, Unix und VMS. The Client for administration is developed in java.

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