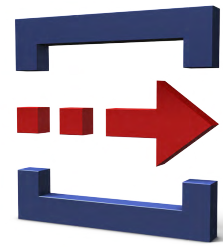


[DoXite]

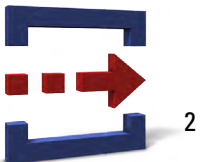


Layout, Production and Distribution
of Printed or Digital Business Documents
– An Overview –



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Document Production and Electronic Business Communication

DETEC presents the new product generation of its successful LibertySoft system named DoXite. DoXite has been developed from scratch with object-oriented design and methods – based on years of experience with over 400 LibertySoft user companies. DoXite has been released for general use in December 2007.

DoXite – What It Is

DoXite produces dynamically designed documents for print and electronic media from the data of many applications incl. SAP. For document output in PDF, PDF/A, TIFF and JPEG, it also offers archive, e-mail and fax interfaces. For printing, PCL5, PCL6 and GDI drivers are available.

In addition, the new product converts and structures the data, e.g. if you need XML while your database provides ASCII. DoXite is completely based on Unicode. Its formatting capabilities for dates and currencies support all language formats. In productive use,

the functions of DoXite Release 1.1 do not only run under Windows but also under Linux.

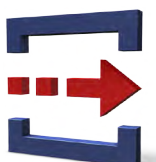
SAP Certifications

SAP certification of DoXite was performed with SAP AG in week 9/2008 and comprises these SAP interfaces and data formats: BC-RDI, BC-XSF, and the new BC-XFP certification.

Usable in the Output Management System and via API

DoXite is called automatically from the users existing print spool system under Windows, Linux and Unix, or from the OMS in use there.

If a web or intranet application needs ad hoc a document in PDF format, based on just produced variable data, then DX/Server will manage this. Its services are available to the applications via an API.



Central Configuration and the Concept of Environments

As “Integrated Configuration Environment” (ICE), this central, Windows Explorer-oriented component offers an overview of all DoXite projects and configurations. This graphical user interface allows to access configuration data and to perform administrative work (see Fig. 1). The Data Styler and Document Styler tools are ICE plug-ins.

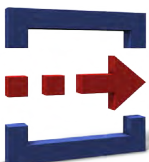
The ICE configurations arranges the used DoXite elements in “Environments”; e.g. as mapping of an IT structure with development, quality assurance, and production.

Two other essential DoXite features are covered by the ICE: Automatic versioning of all DoXite objects and a period of validity for each object. In this way, the user can reactivate previous versions or prepare definitions for automatic activation at a later time.

Intelligent Process Control

DoXite has a strictly modular structure. This is the main reason for its easy integratability as a formatting subsystem, e.g. in spooling and Output Management Systems. Even when called from other systems of the user, it can control freely definable processes.

In such a process, not only DoXite components but also LibertySoft or third-party applications can be executed, e.g. a subsequent mail post-processing for printed material or the signing of digital documents. These controlled processes can interchange their results in different ways, via pipes or files.



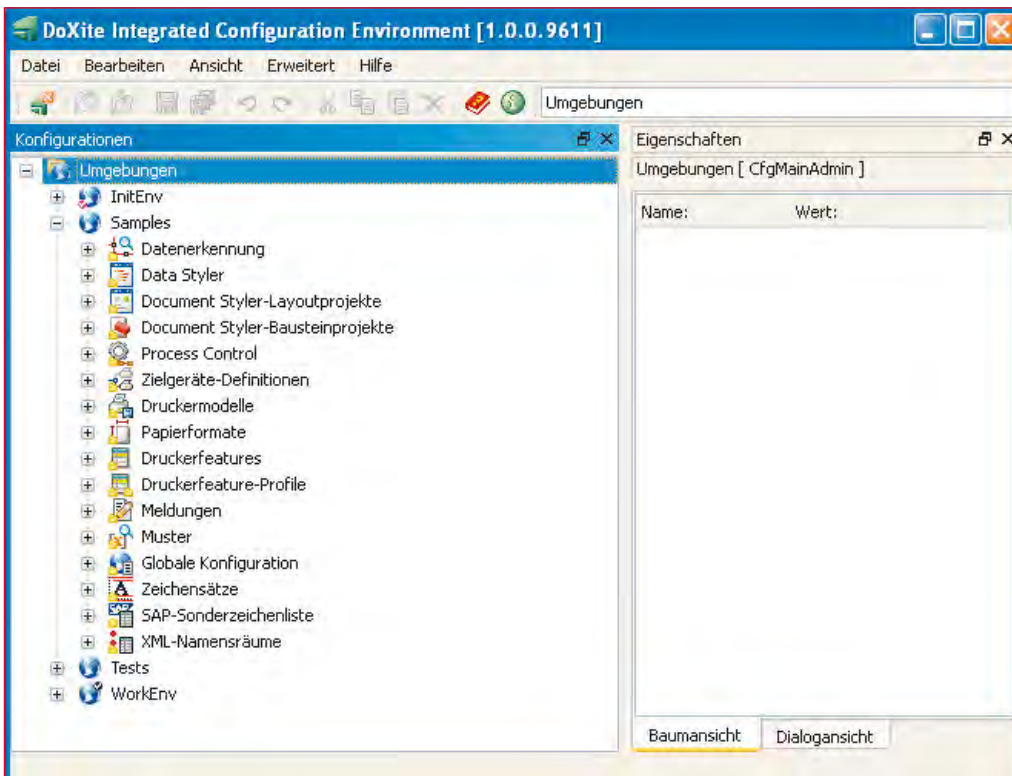


Fig. 1:
The Integrated Configuration Environment (ICE) offers an overview of all DoXite products and configurations.

Data Detection Defines Conversion Steps

For defining a sequence of processes to be executed for a specific data or document formatting, DoXite includes the Data Detection. DoXite can even execute conversion steps that are not intended for document production. Based on regular expressions, it detects matches in the input data. Dependent on the match, the associated Process Control Definition will be executed. This method allows complex conditions and conditional transformations.

DoXite includes a large number of predefined converters, e.g. for converting SAP data formats such as RDI or IDOC to XML. User-defined converters for new data types can easily be added.

Structuring Data, Layouting Documents

For analyzing and structuring data on the one hand and for layouting dynamic documents and forms on the other hand, DoXite includes two special tools: The Data Styler (see Fig. 2) understands various data formats and converts them to XML. The Document Styler (see Fig. 3) is based on XML data, defines the document layout, and places variable XML data in the correct positions.

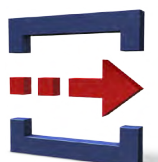
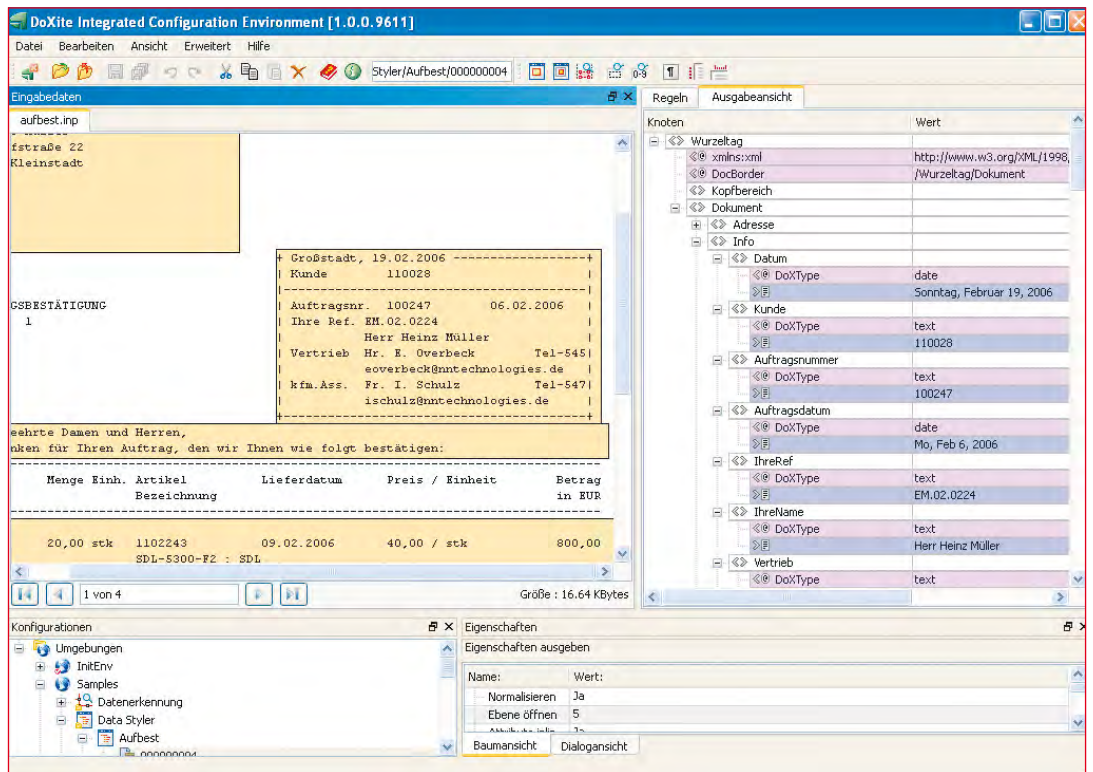


Fig. 2:
Deriving the XML data design with the Data Styler, here based on "windows" of an ASCII input file. The input data converted to the XML format serves as input for the Document Styler.



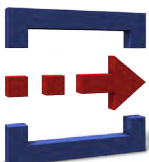
Output Interfaces: Printers, Archive, Mail, Fax

With DoXite, a number of output drivers for printers and electronic media is available. This includes, e.g., PCL5, PCL6 (PCL-XL), PDF, PDF/A and TIFF. The production of output data streams is completely configurable, e.g. for output devices profiles, page features such as duplex type, page formats and output tray. Individual documents can also be stored as separate files, e.g. in a defined "hot folder" of a following application. Other options are output interfaces for various archiving systems, mail and fax.

Scripting for DoXite: Python

DoXite can be extended by script programming to meet special requirements. It is important that the script language has object-oriented capabilities and can be embedded in an object-oriented environment, namely DoXite. In this way, the results of a script can already be display in the preview window of the Document Styler.

Ideally, the used script language has been tested and is established. Therefore, DoXite comes with a Python Framework. Python (Open Source) is a portable, interpreted and object-oriented programming language intended to be clear and easily applicable. In addition, Python includes a large standard library and is therefore suitable for many applications (XML, HTML, HTTP, SOAP, MIME, etc). Technical literature about this language and its application is varied and widespread.



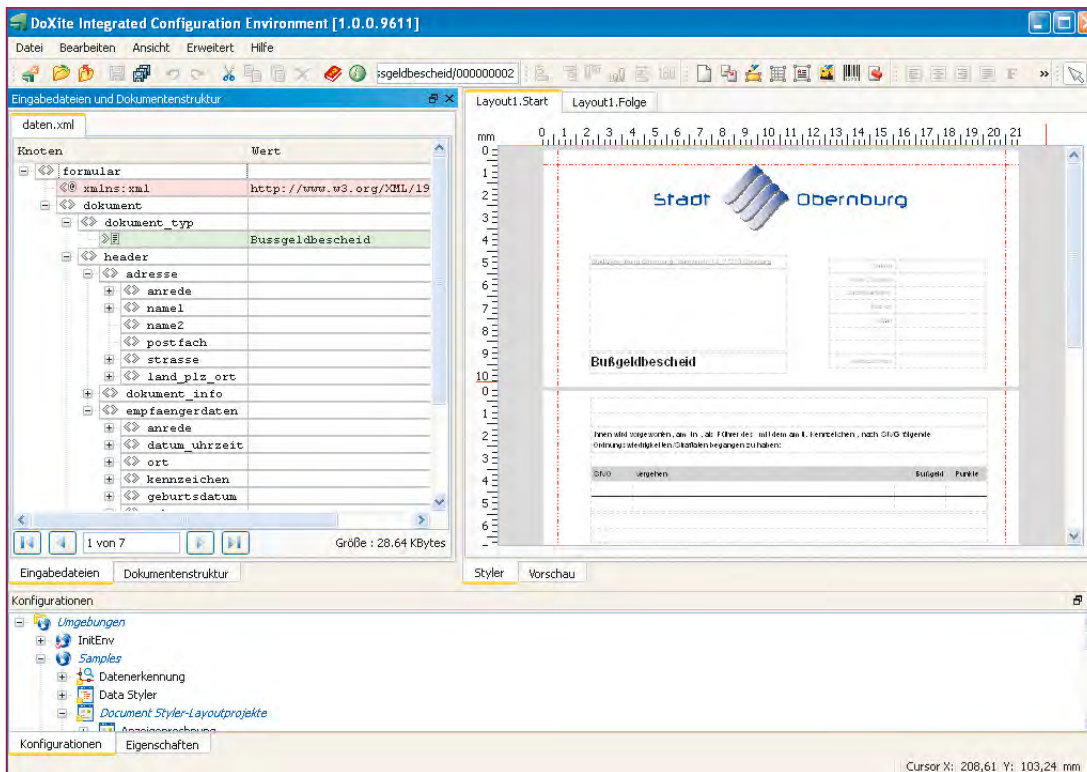
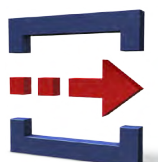


Fig. 3: When designing the document, the user defines the document structure and the look of logical document sections such as header, body, table, and footer. Display and placement of the windows in this view, e.g. the display of XML input data, can be set according to the user's preference.

Purpose of DX/Server

Laidout documents or specific data conversions are not only required as part of the Output Management System. For instance, a web or intranet application ad hoc needs a document in PDF format on the basis of just produced variable data. This is exactly the purpose of the optional component DX/Server, which is the carrier system of the required workflow. Based on DoXite processes, the user can e.g. format document, access databases, or determine a current notation on the stock exchange.

DX/Server can also be used to allow a preview of formatted documents. Via a call from application or standard systems such as SAP, raw data are sent and e.g. a PDF file with formatted documents is requested as result.



Benefits

Companies receive benefits by DoXite in the following areas:

- Output documents become clear, easily readable and customer-oriented. This results in less errors and questions by customers and document recipients.
- Companies produce and distribute digital versions of the documents: multichannel per e-mail, fax, letter, EDI, XML, web document (PDF, PDF/A). Based on digital documents, workflows can be optimized: within a company (internal processes), between companies (B2B), and between a company and its customers.
- If large quantities have to be printed on paper and then to be transported: In this case, workflows will be optimized with barcodes, and using DoXite's Process Control, control of post-processing and enveloping, sorting and possibly electronic franking.
- Users of standard software packages, such as ERP systems like SAP, use one common and central tool-set and functionality for their respective document production and distribution, paper and digital.
- Talk with us about many other possibilities of optimizing existing workflows, improving communication and reducing costs.

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