

XWord

The fast way from XML to Microsoft Word

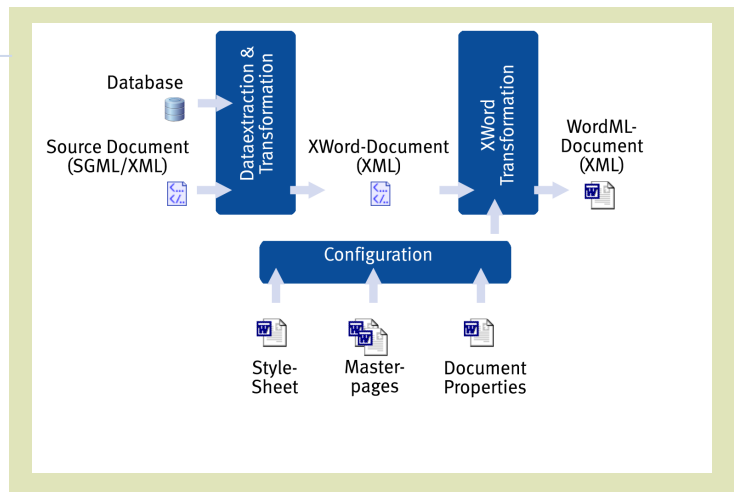
XWord (“cross-Word“) enables you to develop powerful applications for formatting SGML- or XML-Documents with Word. You don’t need any knowledge of RTF or WordProcessingML, the XML-Format for Word-Documents created by Microsoft.

Why transform XML to Word?

Word is the standard for text processing in many parts of industry, government and science. Word documents can be read and edited by nearly every person and Word is available on nearly every computer with Windows OS.

SGML/XML is the standard for format-independent data storage. However, applications for fast and easy formatting of SGML/XML Documents are not widely available.

XWord helps by creating formatted Word documents from XML: quickly and with high quality.



XWord overview: Two transformations to success.

Where is XWord used?

You can use XWord in different domains:

- As desktop formatter for SGML/XML documents.
- For fast creation of a print preview (e.g. directly out of XMetal).
- For generating Microsoft Word documents out of XML based Content Management Systems (e.g. Ovidius TCToolbox).
- As a fast generator for web-based VDP applications (Variable Data Processing), e.g. for creating contracts, orders or forms.

Why two transformations?

Simple structured documents can sometimes be published in a direct way.

Overleaf you will find two examples that explain why it may be necessary to transform data before publishing:

- Conversion of semantic structures
- Generating of navigation aid

How does XWord work?

XWord creates Word documents in the XML exchange format for Word (WordProcessingML). This is why Word 2003 (or higher) is required. All important functions of Word are delivered to the user by a straight forward but powerful, DTD: the XWord DTD.

The creation of Word documents is achieved by a two-step transformation:

Step 1: Conversion of the source documents into the XWord DTD. This conversion can be made using XSLT, MetaMorphosis or other available conversion tools.

Step 2: Conversion of the XWord DTD into the XML format of Microsoft Word. This conversion is done automatically.

Formatting the texts is done via the paragraph and sign formats built in Word. A masterpage in Word can be created for every page type (e.g. title, index, page in portrait format or landscape).

What benefits does XWord offer?

- Microsoft Word is installed on nearly every Windows PC. Therefore you already own a cheap and powerful formatting engine for your XML documents.
- The XWord DTD is simple and easy to understand. The creation of the conversion to the XWord DTD is simple and timesaving.
- The developer needs no knowledge of the complex Microsoft WordProcessingML-Schema. He only has to work with the simple but powerful XWord DTD.
- The XWord DTD protects the developer from changes in the target format (WordProcessingML) by Microsoft. Ovidius offers an update service with a current version of the second step for conversion in periodical intervals.
- Layout and Format changes are set easily by customization of the masterpages and formats in Word. No programming-knowledge is needed.

Conversion of semantic structures

In this example, for publication the warning is set in two table cells, on the left an icon is created, on the right the Word “Warning“ appears (cp. the illustration on the right).

Table, Warning and Icon will be generated in the transformation process to the XWord DTD.

Generating of navigation aid

Typical navigation aids are for example ‘local‘ directories at the beginning of each chapter, graphic-directories or list of tables and so on.

For all these requirements one clearly defined part will be filtered out of the complete data and will be set as a list with hyperlinks to a pre-defined location in the document. Generating such data can only be solved with a transformation.

XWord - available versions

Ovidius offers a ‘Desktop‘ and a ‘Server‘ version of XWord. Both versions enable users to develop and run XWord applications.

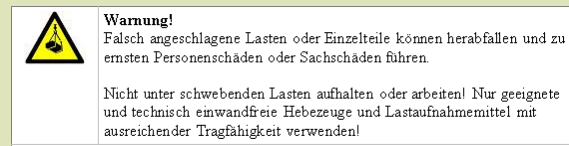
Customers

Together with our Technical Publication Content Management System TCToolbox XWord is used by the following customers:

- Beumer GmbH, Germany
- Dokuwerk KG, Germany
- Grasso GmbH, Germany
- Polysius AG, Germany
- Projektron GmbH, Germany
- Wabco GmbH, Germany

```
<Warning Typ="Lasten">
<Gefahrenart>Falsch angeschlagene Lasten oder Einzelteile können
herabfallen und zu ernststen Personenschäden oder Sachschäden
führen.</Gefahrenart>
<Gefahrenabwehr>Nicht unter schwebenden Lasten aufhalten oder
arbeiten! Nur geeignete und technisch einwandfreie Hebezeuge und
Lastaufnahmemittel mit ausreichender Tragfähigkeit
verwenden!</Gefahrenabwehr>
</Warning>
```

Warnings structured in XML.



Typically warnings will be published like this.

About Ovidius

Ovidius is based in Berlin, Germany, and specialises in XML and SGML software solutions for creating, managing, and publishing of technical and scientific information. We help companies with complex documentation requirements, e.g. automotive, mechanical engineering, software “manufacturers“, aviation and defence, medical engineering and IT companies.

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