

## Key Benefits

- Preserve your custom XML
- Protect your investment in XML infrastructure
- Supports .docx files, raw XML files, and ISO 29500-defined custom XML
- Maintain your ISO 29500 compliance
- Small footprint
- Seamless and easy-to-use implementation

**Custom XML** is what Microsoft refers to as 'user defined' XML. This is the XML that a company or industry developed to help them manage the content of their documents. Examples of industry defined XML are SPL for the pharmaceutical industry and DocBook for the publishing industry. Industry source for XML initiatives is OASIS:  
<http://www.oasis-open.org>

## x4w – Custom XML for Word

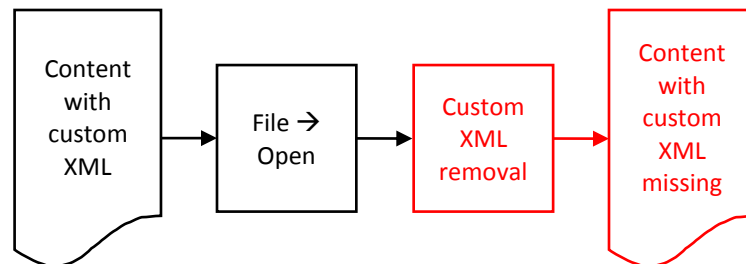
### A bit of history

XML is an open technology standard embraced by both the government and private industry, and has become the basis for ISO and many other compliance standards. An XML document has two parts: the content (the text created by a user) and the markup (XML code that allows the computer to recognize the meaning of the text).

To meet market demand for open standards compliance, Microsoft® replaced the proprietary encoding in *Word* with XML, and later introduced a version of *Word* that featured custom XML editing capabilities. This feature wrongfully includes i4i's patented technology, but continues to exist in *Word 2007* and *Word 2010*. Based on a U.S. court ruling in June 2009, Microsoft was ordered to remove the infringing technology from copies of *Word* distributed in the United States after January 11, 2010.

### How will this affect you?

Versions of *Word* licensed in the US after January 11, 2010 are set to strip the custom XML out of any document when it is opened. All custom XML in these files is lost.



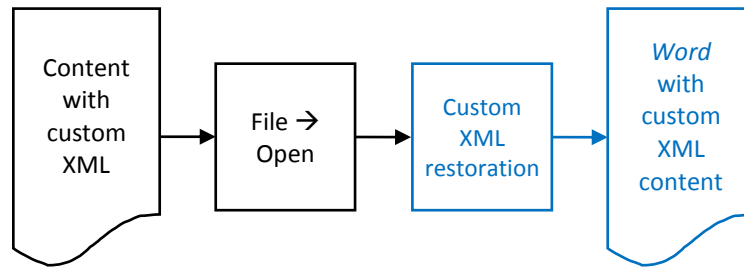
This presents critical problems for any business processes that use the custom XML capabilities of *Word*. Data loss will occur when exchanging documents containing custom XML, if affected versions of *Word* are involved. Applications built around the use of custom XML are rendered unusable, threatening any investment in such technology.

### x4w – Power behind the scenes

i4i's *x4w* software integrates into *Word 2007* (and *Word 2010*) and restores the custom XML in .docx files, raw XML files, and files that contain ISO 29500-defined custom XML. When a user opens a document, *x4w* catches each file before *Word* removes the custom XML and:

1. Identifies all the custom XML tags in the document.
2. Removes them from the document.
3. Saves the XML tags and their locations to memory<sup>1</sup>.
4. Passes the document to *Word*, which opens the document.
5. Returns the custom XML to where it should be.
6. Opens the document to the user.

<sup>1</sup> This technology is protected by US Patent 5,787,449



With the custom XML restored, the user is free to edit the document as needed. Similarly, *Word* applications that use custom XML can now function normally and continue to deliver business value.

Further development of *x4w* is ongoing, and future versions may support a wider variety of formats, including wordML (*Word* 2003's version of XML). However, because *Word* 2003 does not save custom XML in a manner that is compatible with ISO 29500 standards, *x4w* does not support *Word* 2003 documents that were saved as XML files.

### **x4w configuration**

*x4w* is delivered as a software library for use with *Word* 2007 and *Word* 2010. This allows a solution provider to limit what types of custom XML is processed by *x4w*. *x4w* can be limited to a *namespace* (only preserving custom XML provided by the solution provider) or a *specific schema* (only preserving custom XML in documents controlled by the named schema).

For more information on *x4w* and protecting your XML investment, please contact i4i at [xml@i4i.com](mailto:xml@i4i.com) or call our sales line at 416.504.0141 ext 216.

### **About i4i**

Infrastructures for Information (i4i) is a world leader in the design and development of XML-based collaborative content solutions and technologies. The Company has a proven record of accomplishment and innovation, having authored international standards and patented its technology. i4i has successfully developed and deployed collaborative content solutions to customers in life sciences as well as other industry and governments around the world.

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