

XML Converter Installation and Administration Guide
10g Release 3 (10.1.3.3.0)

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XML Converter Installation and Administration Guide, 10g Release 3 (10.1.3.3.0)
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INTRODUCTION

OVERVIEW

This section contains the following topics:

- ❖ [About This Guide](#) (page 1-1)
- ❖ [Conventions](#) (page 1-2)
- ❖ [XML Converter Documentation](#) (page 1-3)
- ❖ [FlexionDoc and SearchML Schema Documentation](#) (page 1-4)





ABOUT THIS GUIDE

This guide provides all information required to install, set up, and administer XML Converter version 10gR3 on a computer running either Microsoft Windows or UNIX.

CONVENTIONS

The following conventions are used throughout this guide:

- ❖ Forward slashes (/) are used to separate parts of an Internet address. For example, <http://www.google.com/maps>. A forward slash might or might not appear at the end of an Internet address.
- ❖ Backward slashes (\) are used to separate the levels in a path to a Windows server, directory, or file. For example, C:\ibr\refinery\. A backward slash will always appear after the end of a Windows server, directory, or file path.
- ❖ Forward slashes (/) are also used to separate the levels in a path to a UNIX server, directory, or file. For example, /usr/ibr/refinery.
- ❖ File names and file paths within text are indicated by the following convention: *<filename>* file in the *<path_to_directory>* directory.
- ❖ The notation *<refinery_install_dir>* is used to refer to the location of the main Inbound Refinery installation directory.
- ❖ The notation *<content_server_install_dir>* is used to refer to the location of the main Content Server installation directory.
- ❖ Notes, technical tips, important notices, and cautions use these conventions:

Symbols	Description
	This is a note. It is used to bring special attention to information.
	This is a technical tip. It is used to identify information that can be used to make your tasks easier.
	This is an important notice. It is used to identify a required step or required information.
	This is a caution. It is used to identify information that might cause loss of data or serious system problems.

XML CONVERTER DOCUMENTATION

XML Converter comes with a comprehensive online Help system and a full set of PDF documentation.

On-Line Help System

XML Converter Help can be accessed from the Inbound Refinery administration interface or from the file system on the refinery computer:

- ❖ To view Help from the Inbound Refinery administration interface, click on a Help link.
- ❖ To start the Refinery Products Help system from the refinery computer file system, open the *wh_start.htm* file located in the following directory:

Windows—`<refinery_install_dir>\weblayout\help\`

UNIX—`<refinery_install_dir>/weblayout/help`



Note: The Welcome link in the online Help system table of contents provides useful information on using the Help system.

PDF Documentation

The XML Converter documentation is also available as a set of PDF files. All of the PDF files are included with the Inbound Refinery software installation files. PDF files of guides are also installed along with the Inbound Refinery software:

- ❖ To view the PDF version of a guide from the Refinery Products Help system, click the PDF icon in the upper right-hand corner of any help page.
- ❖ To view the PDF files from the refinery computer file system, go to the following directory:

Windows—`<refinery_install_dir>\weblayout\help\documentation\`

UNIX—`<refinery_install_dir>/weblayout/help/documentation`

FLEXIONDOC AND SEARCHML SCHEMA DOCUMENTATION

FlexionDoc and SearchML schema code and documentation files are installed with the XMLConverterSupport component into the *<content_server_install_dir>/custom/XMLConverterSupport* directory.

WHAT'S NEW

OVERVIEW

This section covers the following topics:

- ❖ [Product Enhancements](#) (page 2-1)
- ❖ [Removed Features](#) (page 2-2)
- ❖ [Documentation Enhancements](#) (page 2-2)

PRODUCT ENHANCEMENTS

The following product enhancements have been made for XML Converter version 10gR3:

- ❖ **XML Converter now installed using components for Inbound Refinery and Content Server**

Inbound Refinery has been redeveloped for version 10gR3. Inbound Refinery has the same basic functionality as in previous releases, however it is now based on Content Server. Amongst many other advantages, this enables the use of components for easier, faster patching and the development of conversion add-ons. XML Converter has been redeveloped as component (XMLConverter) for Inbound Refinery and a corresponding support component (XMLConverterSupport) for Content Server.

- ❖ **New Administration Interface**

XML Converter has a new, web-based administration interface. The new interface leverages all Content Server interface features.

❖ **New Version of Outside In XML Export and Search Export**

XML Converter includes Outside In XML Export and Search Export 8.1.9. This includes support for the latest versions of the FlexionDoc and SearchML schemas:

- FlexionDoc 5.1
- SearchML 3.1

REMOVED FEATURES

The following features have been removed from XML Converter version 10gR3:

❖ **XSLT Feature Not Supported**

The XSLT (eXtensible Style Language Transformation) feature is not supported for XML Converter 10gR3. In previous releases, this feature enabled XML Converter to post-process the resulting XML document, transforming it to a different XML document based on your XSL (eXtensible File Language) file and validated against your DTD (Document Type Definition) or schema. This feature might be reintroduced in a future release of XML Converter.

DOCUMENTATION ENHANCEMENTS

The following documentation enhancements have been made for XML Converter version 10gR3:

❖ **Reorganized Documentation Set**

The XML Converter documentation set has been reorganized and now contains the following documents:

- *XML Converter Installation and Administration Guide*—provides all information required to install, set up, and administer XML Converter version 10gR3 on a computer running either Microsoft Windows or UNIX.
- *DAM and Conversion Products Release Notes*—provides the most current considerations for installing and administering all version 10gR3 Digital Asset Management (DAM) and conversion products, including XML Converter.

❖ **Documentation Updated for Redeveloped Refinery and New Interface**

The XML Converter documentation set has been updated to cover the redeveloped refinery and the new administration interface.

XML CONVERTER OVERVIEW

OVERVIEW

This section covers the following topics:

- ❖ [About XML Converter](#) (page 3-1)
- ❖ [XML Converter Process Overview](#) (page 3-1)

ABOUT XML CONVERTER

XML Converter is a conversion add-on that is available for use with Inbound Refinery. XML Converter can convert files to XML (eXtensible Markup Language) files using Outside In XML Export, Search Export, and either the FlexionDoc or SearchML schema.



Note: For more information about file formats that can be converted by XML Converter using Outside In XML Export and Search Export, see [Appendix A \(File Formats Converted to XML By Outside In\)](#).

XML CONVERTER PROCESS OVERVIEW

When XML Converter is installed, Inbound Refinery can convert files to XML using Outside In XML Export, Search Export, and either the FlexionDoc or SearchML schema. Inbound Refinery can be configured to generate an XML file as the primary web-viewable rendition, or it can be configured to generate an XML file in addition to other renditions (such as PDF files generated using the PDF Converter conversion add-on).

When the generated XML files are delivered back to a content server, the XML files are included in the full-text index. However, if other web-viewable files are generated in addition to the XML file, the XML file is not used as the primary web-viewable rendition. For example, if Inbound Refinery generates both a PDF file and an XML file, the PDF file would be used as the primary web-viewable rendition. XML renditions stored in the content server *weblayout* directory can be recognized by the characters *@x* in their filenames. For example, the file *Report2001@x~2.xml* would be an XML rendition.



Note: FlexionDoc and SearchML schema code and documentation files are installed with the XMLConverterSupport component into the `<content_server_install_dir>/custom/XMLConverterSupport` directory.

INSTALLING XML CONVERTER

OVERVIEW

This section covers the following topics:

- ❖ [Pre-Installation Tasks and Considerations](#) (page 4-2)
- ❖ [Installing XML Converter](#) (page 4-3)
- ❖ [Uninstalling XML Converter](#) (page 4-5)
- ❖ [Updating XML Converter](#) (page 4-6)

PRE-INSTALLATION TASKS AND CONSIDERATIONS

Make sure that you read, understand and comply with each of the following tasks and considerations before installing XML Converter:

- ❑ XML Converter version 10gR3 requires Inbound Refinery version 10gR3. It might be possible to use XML Converter with other versions of Inbound Refinery, however, Oracle, Inc. cannot guarantee that XML Converter version 10gR3 will function correctly when it is not used with a Inbound Refinery version 10gR3 instance.
- ❑ XML Converter version 10gR3 is supported on the same Windows and UNIX operating systems as Inbound Refinery version 10gR3. For more information, refer to the *Inbound Refinery Installation Guide*.
- ❑ Be mindful of the user account that you use to install and run XML Converter. The same user must be used to install Inbound Refinery and XML Converter, install all required third-party applications, and run Inbound Refinery and XML Converter.
- ❑ Due to the technical nature of operating systems, web servers, and browsers, Oracle, Inc. cannot warrant compatibility with all versions and features of third-party products.

INSTALLING XML CONVERTER

XML Converter is comprised of two separate components. One component is installed on the refinery and the other on the content server. The two components are:

- ❖ XMLConverter (refinery)
- ❖ XMLConverterSupport (content server)



Important: It is imperative that the XML Converter components are installed properly on their respective refinery and content server instances (i.e., the XMLConverter component *must* be installed on the refinery, not on the content server). Should a reversal of the components occur, the XML Converter will not work.

This section covers the following topics:

- ❖ [Installing the XML Converter Components Using Component Manager](#) (page 4-3)
- ❖ [Installing the XML Converter Components Using Component Wizard](#) (page 4-4)

Installing the XML Converter Components Using Component Manager

To install the XML Converter components using Component Manager, complete the following steps:

1. Open a new browser window and log into the content server or refinery that is running the Admin Server for the refinery as a system administrator.
2. Launch the Admin Server.
3. On the Content Admin Server page, click the button of the refinery where you want to install the XMLConverter component. The status page for the refinery is displayed.
4. In the option list for the refinery, click the **Component Manager** link. The Component Manager page is displayed.
5. Click the **Browse** button next to the **Install New Component** field.
6. Navigate to the XML Converter component on the Inbound Refinery distribution media (*XMLConverter.zip*).
7. Double-click on the component zip file or select the component zip file and click **Open**.
8. Click **Install**. An overview page is displayed providing a list of the items that will be installed.

9. Click **Continue**. All required files are now installed. This might take a few minutes.
10. After all files have been copied, a message is displayed stating that the component was uploaded and installed successfully.
11. Click the link to enable the component and restart the refinery. The status page for the refinery is displayed.
12. Click the restart button to restart the refinery.
13. To install the XMLConverterSupport component, complete the previous steps, installing instead the XMLConverterSupport component on each content server instance that is an agent to the refinery.
14. After installing the XMLConverterSupport component on a content server, you must complete the following steps to publish the XML Converter FlexionDoc and SearchML schema:
 - a. Open a browser window and log into the content server.
 - b. Choose **Administration—Actions—Publish static layout files** to publish the XML Converter FlexionDoc and SearchML schema from the `<content_server_install_dir>/custom/XMLConverterSupport/publish` directory to the `weblayout/schema` directory.

Installing the XML Converter Components Using Component Wizard

To install the XML Converter components using Component Wizard, complete the following steps:

1. Insert the XML Converter software CD.
2. Start Component Wizard:
 - ❖ In Windows, choose **Start—Programs—Stellent Content Server—<refinery>—Utilities—Component Wizard**.The Component Wizard main screen and the Component List screen are displayed.
3. Click **Install**. The Install dialog is displayed.
4. Click **Select** and navigate to the XMLConverter component on the Inbound Refinery distribution media (*XMLConvertor.zip*).
5. Double-click on the zip file or click **Open**. The Install list displays the files that will be installed.
6. Click **OK**. All required files are now installed. This might take a few minutes.

7. After all files have been copied, you are prompted to confirm enabling the component. Click **Yes**.
8. Close Component Wizard.
9. Restart the refinery.
10. To install XMLConverterSupport component, complete the previous steps, installing instead the XMLConverterSupport component on each content server instance that is an agent to the refinery.



Important: When installing on a UNIX content server instance, launch Component Wizard by navigating to the `<content_server_install_dir>/bin` directory. At the command prompt, type `ComponentWizard`.

11. After installing the XMLConverterSupport component on a content server, you must complete the following steps to publish the XML Converter FlexionDoc and SearchML schema:
 - a. Open a browser window and log into the content server.
 - b. Choose **Administration—Actions—Publish static layout files** to publish the XML Converter FlexionDoc and SearchML schema from the `<content_server_install_dir>/custom/XMLConverterSupport/publish` directory to the `weblayout/schema` directory.

UNINSTALLING XML CONVERTER

To uninstall the XML Converter components, complete the following steps:

1. Disable and uninstall the XMLConverter (refinery) and XMLConverterSupport (content server) components using either Component Manager or Component Wizard.
2. Restart the refinery and each content server instance.
3. If desired, delete the following directories that are installed by these components:
 - `<refinery_install_dir>/custom/XMLConverter`
 - `<content_server_install_dir>/custom/XMLConverterSupport`

UPDATING XML CONVERTER



Note: Updates from pre-10gR3 versions of XML Converter to version 10gR3 are not supported.

Existing XML Converter versions 10gR3 can be updated to a newer version 10gR3 build (upon availability). To update XML Converter functionality, complete the following steps:

1. For each refinery instance, disable and uninstall the XMLConverter component using either Component Manager or Component Wizard.
2. Restart the refinery.
3. Install and enable the new XMLConverter component. For details, see [Installing XML Converter](#) (page 4-3).
4. Restart the refinery.
5. For each content server instance, disable and uninstall the XMLConverterSupport component using either Component Manager or Component Wizard.
6. Restart the content server.
7. Install and enable the new XMLConverterSupport component. For details, see [Installing XML Converter](#) (page 4-3).
8. Restart the content server.

CONFIGURING XML CONVERTER CONVERSION SETTINGS

OVERVIEW

This section covers the following topics:

Tasks

- ❖ [Configuring Content Servers to Send Jobs to XML Converter](#)
- ❖ [Setting Accepted Conversions](#)
- ❖ [Setting XML Files as the Primary Web-Viewable Rendition](#)
- ❖ [Setting XML Files as an Additional Rendition](#)

Interface

- ❖ [XML Options Page](#)

CONFIGURING CONTENT SERVERS TO SEND JOBS TO XML CONVERTER

File extensions, file formats, and conversions are used in Content Server to define how content items should be processed by Inbound Refinery and its conversion add-ons. You must configure each content server to send files to refineries for conversion. When a file extension is mapped to a file format and a conversion, files of that type will be sent for conversion when they are checked into the content server. You can configure your file extension, file format, and conversion mappings in your content servers using either the File Formats Wizard or the Configuration Manager.

Most conversions required for XML Converter are available by default in Content Server. In addition to the default conversions that can be used to send file formats to a refinery for XML conversion, the following conversions are added to the content server when the XMLConverterSupport component is installed:

Conversion	Description
FlexionXML	This conversion can be used to convert files to XML using the FlexionDoc schema. It applies to file types other than the standard file types included in the list of conversions (for example, Word, PowerPoint, and so on). If you want these standard file types to be sent to a refinery for conversion to XML using FlexionDoc, you do not need to re-map their file formats to the FlexionXML conversion. This conversion is not available on the File Formats Wizard. It must be mapped using the Configuration Manager.
SearchML	This conversion can be used to convert files to XML using the SearchML schema. It applies to file types other than the standard file types included in the list of conversions (for example, Word, PowerPoint, and so on). If you want these standard file types to be sent to a refinery for conversion to XML using the SearchML, you do not need to re-map their file formats to the SearchML conversion. This conversion is not available on the File Formats Wizard. It must be mapped using the Configuration Manager.
XML-XSLT Transformation	Important: The XML-XSLT conversion is not supported for this version of XML Converter.

For more information about configuring file extensions, file formats, and conversions in your content servers, refer to the *Inbound Refinery Administration Guide*.

SETTING ACCEPTED CONVERSIONS

Conversions available in the content server should match those available in the refinery. When a file format is mapped to a conversion in the content server, files of that format will be sent for conversion upon checkin. One or more refineries must be set up to accept that conversion.

You set the conversions that the refinery will accept and queue maximums on the Conversion Listing page. Most conversions required for XML Converter are available by default in Inbound Refinery. In addition to the default conversions that can be accepted by a refinery, the FlexionXML and SearchML conversions are added to the refinery when the XMLConverter component is installed. The FlexionXML and SearchML conversions are accepted by default. For more information about setting accepted conversions, refer to the *Inbound Refinery Administration Guide*.

SETTING XML FILES AS THE PRIMARY WEB-VIEWABLE RENDITION

To set XML files as the primary web-viewable rendition, complete the following steps:

1. Log into the refinery.
2. Select **Conversion Settings—Primary Web Rendition**. The Primary Web-Viewable Rendition page is displayed.
3. Select the **Convert to XML** option.
4. Typically you will want to clear all other conversion options. Inbound Refinery will attempt to convert each incoming file based on the native file format. If the format is not supported for conversion by the first selected method, Inbound Refinery will check to see if the next selected method supports the format, and so on. Inbound Refinery will attempt to convert the file using the first selected method that supports the conversion of the format.

For example, consider that you select both the *Convert to PDF using third-party applications* option and the *Convert to XML* option. The refinery will attempt to convert any supported formats to PDF using the *Convert to PDF using third-party applications* method. Whether or not this method fails, Inbound Refinery will not attempt another conversion method for these formats. Therefore, you should typically select only the *Convert to XML* option if you want to create XML files as the primary web-viewable rendition.

5. Click **Update** to save your changes.
6. Click the **XML Options** button. The [XML Options Page](#) is displayed.
7. Set your XML options, and click **Update** to save your changes.
8. Note the following important considerations:
 - ❖ If you want to adjust the default settings for the Flexiondoc and SearchML options, you can specify option settings in the *intradoc.cfg* file located in the `<refinery_install_dir>/bin` directory. For a complete description of available Flexiondoc and SearchML options, refer to the *xx.cfg* file located in the `<refinery_install_dir>/custom/XMLConverter/resources` directory. You must restart your refinery after making changes to the *intradoc.cfg* file.
 - ❖ FlexionDoc and SearchML schema code and documentation files are installed with the XMLConverter component into the `<refinery_install_dir>/custom/XMLConverter` directory.

SETTING XML FILES AS AN ADDITIONAL RENDITION

To set XML files as an additional rendition, complete the following steps:

1. Log into the refinery.
2. Select **Conversion Settings—Additional Renditions**. The Additional Renditions page is displayed.
3. Select the **Create XML renditions for all supported formats** option. Inbound Refinery will generate an XML file in addition to other renditions (such as PDF files generated using the PDF Converter conversion add-on).

When the generated XML files are delivered back to a content server, the XML files are included in the full-text index. However, if other web-viewable files are generated in addition to the XML file, the XML file is not used as the primary web-viewable rendition. For example, if Inbound Refinery generates both a PDF file and an XML file, the PDF file would be used as the primary web-viewable rendition. XML renditions stored in the content server *weblayout* directory can be recognized by the characters *@x* in their filenames. For example, the file *Report2001@x~2.xml* would be an XML rendition.

4. Click **Update** to save your changes.
5. Click the **XML Options** button. The [XML Options Page](#) is displayed.
6. Set your XML options, and click **Update** to save your changes.

7. Note the following important considerations:
 - ❖ If you want to adjust the default settings for the Flexiondoc and SearchML options, you can specify option settings in the *intradoc.cfg* file located in the `<refinery_install_dir>/bin` directory. For a complete description of available Flexiondoc and SearchML options, refer to the *xx.cfg* file located in the `<refinery_install_dir>/custom/XMLConverter/resources` directory. You must restart your refinery after making changes to the *intradoc.cfg* file.
 - ❖ FlexionDoc and SearchML schema code and documentation files are installed with the XMLConverter component into the `<refinery_install_dir>/custom/XMLConverter` directory.

XML OPTIONS PAGE

XML Options

Produce FlexionDoc XML 5.1
 Produce SearchML 3.1

Resource Type

None
 DTD Reference
 Schema Reference

The XML Options page enables you to set options for converting files to XML. Access this page using one of the following methods:

- ❖ Select **Conversion Settings—Primary Web Rendition**, select the **Convert to XML** option, and click the **XML Options** button.
- ❖ Select **Conversion Settings—Additional Renditions**, select the **Create XML renditions for all supported formats** option, and click the **XML Options** button.

Feature	Description
Produce FlexionDoc XML 5.1 radio button	Specifies the use of FlexionDoc XML schema when converting documents to XML.
Produce SearchML 3.1 radio button	Specifies the use of SearchML schema when converting documents to XML.
None radio button	A DTD or schema will not be referenced when converting documents to XML.
DTD Reference radio button	The FlexionDoc or SearchML DTD will be referenced when converting documents to XML.
Schema Reference radio button	The FlexionDoc or SearchML schema will be referenced when converting documents to XML.
Update button	Saves changes to settings.
Reset button	Reverts to the last saved settings.

Please note the following important considerations:

- ❖ If you want to adjust the default settings for the Flexiondoc and SearchML options, you can specify option settings in the *intradoc.cfg* file located in the `<refinery_install_dir>/bin` directory. For a complete description of available Flexiondoc and SearchML options, refer to the *xx.cfg* file located in the `<refinery_install_dir>/custom/XMLConverter/resources` directory. You must restart your refinery after making changes to the *intradoc.cfg* file.
- ❖ FlexionDoc and SearchML schema code and documentation files are installed with the XMLConverter component into the `<refinery_install_dir>/custom/XMLConverter` directory.

TROUBLESHOOTING XML CONVERTER PROBLEMS

OVERVIEW

This section covers the following topics:

- ❖ [XML Converter Installation Issues](#)
- ❖ [XML Converter Setup and Run Issues](#)

XML CONVERTER INSTALLATION ISSUES

The following are symptoms of XML Converter installation issues:

- ❖ [A refinery or content will not start or does not function properly](#) (page 6-2)

A refinery or content will not start or does not function properly

After installing XML Converter, a content server or refinery will not start or is not functioning properly.

Possible Causes	Solutions
<p>The XMLConverter component has been installed on a content server, or the XMLConverterSupport component has been installed on a refinery.</p>	<p>The XMLConverter component must be installed on refineries, and the XMLConverterSupport component must be installed on content servers.</p> <p>If you install the wrong component, complete the following steps:</p> <ol style="list-style-type: none"> 1. Uninstall the component from the content server or refinery using the Component Manager or the Component Wizard. 2. Delete the entire component directory from the <code><refinery/content_server_install_dir>/custom</code> directory. 3. Install and enable the correct component. For details, see Installing XML Converter (page 4-3).

XML CONVERTER SETUP AND RUN ISSUES

The following are symptoms of XML Converter setup and run issues:

- ❖ [XML Converter Won't Process Any Files](#) (page 6-3)

XML Converter Won't Process Any Files

XML Converter has been installed, but no files are being converted.

Possible Causes	Solutions
File formats and conversion methods not set up for file type in the content server.	Use the File Formats Wizard or Configuration Manager in the content server to set up the file formats and conversion methods for XML conversion. For details, see Configuring Content Servers to Send Jobs to XML Converter (page 5-2).
The refinery has not been configured to accept the conversion.	Configure the refinery to accept the conversion. For details, see Setting Accepted Conversions (page 5-3).
The refinery has not been configured to create XML files as the primary web-viewable rendition or an additional rendition.	For details, see Setting XML Files as the Primary Web-Viewable Rendition (page 5-3) and Setting XML Files as an Additional Rendition (page 5-4).



FILE FORMATS CONVERTED TO XML BY OUTSIDE IN

OVERVIEW

XML Converter includes Outside In XML Export and Search Export 8.1.9, which can be used to convert files to XML. This includes support for the latest versions of the FlexionDoc and SearchML schemas:

- FlexionDoc 5.1
- SearchML 3.1

This section lists the file formats that can be converted using Outside In XML Export and Search Export on either Windows or UNIX. The file formats are organized into the following categories:

- ❖ [Word Processing Formats](#) (page A-2)
- ❖ [Desktop Publishing Formats](#) (page A-4)
- ❖ [Database Formats](#) (page A-5)
- ❖ [Spreadsheet Formats](#) (page A-6)
- ❖ [Presentation Formats](#) (page A-7)
- ❖ [Graphic Formats](#) (page A-8)
- ❖ [Compressed Formats](#) (page A-11)
- ❖ [E-mail Formats](#) (page A-11)
- ❖ [Other Formats](#) (page A-13)

WORD PROCESSING FORMATS

The following word processing file formats can be converted:

File formats	Versions
ANSI Text	7 & 8 bit
ASCII Text	7 & 8 bit
DEC WPS Plus (DX)	Versions through 3.1
DEC WPS Plus (WPL)	Versions through 4.1
DisplayWrite 2 & 3 (TXT)	All versions
DisplayWrite 4 & 5	Versions through 2.0
EBCDIC	All versions
Enable	Versions 3.0, 4.0, and 4.5
First Choice	Versions through 3.0
Framework	Version 3.0
Hangul	Versions 97 and 2002
IBM FFT	All versions
IBM Revisable Form Text	All versions
IBM Writing Assistant	Version 1.01
JustSystems Ichitaro	Versions 4.x–6.x, 8.x–13.x, and 2004
JustWrite	Versions through 3.0
Legacy	Versions through 1.1
Lotus AMI/AMI Professional	Versions through 3.1
Lotus Manuscript	Version 2.0
Lotus Word Pro (non-Windows)	Versions SmartSuite 97, Millennium, and Millennium 9.6 (text only)
Lotus Word Pro (Windows)	Versions SmartSuite 96 and 97, Millennium, and Millennium 9.6

File formats	Versions
MacWrite II	Version 1.1
MASS11	Versions through 8.0
Microsoft Rich Text Format (RTF)	All versions
Microsoft Word (DOS)	Versions through 6.0
Microsoft Word (Mac)	Versions 4.0–2004
Microsoft Word (Windows)	Versions through 2007
Microsoft WordPad	All versions
Microsoft Works (DOS)	Versions through 2.0
Microsoft Works (Mac)	Versions through 2.0
Microsoft Works (Windows)	Versions through 4.0
Microsoft Windows Write	Versions through 3.0
MultiMate	Versions through 4.0
Navy DIF	All versions
Nota Bene	Version 3.0
Novell Perfect Works	Version 2.0
Novell/Corel WordPerfect (DOS)	Versions through 6.1
Novell/Corel WordPerfect (Mac)	Versions 1.02 through 3.0
Novell/Corel WordPerfect (Windows)	Versions through 12.0
Office Writer	Versions 4.0–6.0
OpenOffice Writer (Windows & UNIX)	OpenOffice versions 1.1 and 2.0
PC-File Letter	Versions through 5.0
PC-File+ Letter	Versions through 3.0
PFS:Write	Versions A, B, and C
Professional Write (DOS)	Versions through 2.1
Professional Write Plus (Windows)	Version 1.0

File formats	Versions
Q&A (DOS)	Version 2.0
Q&A Write (Windows)	Version 3.0
Samna Word	Versions through Samna Word IV+
Signature	Version 1.0
SmartWare II	Version 1.02
Sprint	Versions through 1.0
StarOffice Writer	Versions 5.2 (text only) and 6.x–8.x
Total Word	Version 1.2
Unicode Text	All versions
UTF-8	All versions
Volkswriter 3 & 4	Versions through 1.0
Wang PC (IWP)	Versions through 2.6
WordMARC	Versions through Composer Plus
WordStar (DOS)	Versions through 7.0
WordStar (Windows)	Version 1.0
WordStar 2000 (DOS)	Versions through 3.0
XyWrite	Versions through III Plus

DESKTOP PUBLISHING FORMATS

The following desktop publishing file formats can be converted:

File formats	Versions
Adobe FrameMaker (MIF)	Versions 3.0, 4.0, 5.0, 5.5, and 6.0 and Japanese 3.0, 4.0, 5.0, and 6.0 (text only)

DATABASE FORMATS

The following database file formats can be converted:

File formats	Versions
Access	Versions through 2.0
dBASE	Versions through 5.0
DataEase	Version 4.x
dBXL	Version 1.3
Enable	Versions 3.0, 4.0, and 4.5
First Choice	Versions through 3.0
FoxBase	Version 2.1
Framework	Version 3.0
Microsoft Works (Windows)	Versions through 4.0
Microsoft Works (DOS)	Versions through 2.0
Microsoft Works (Mac)	Versions through 2.0
Paradox (DOS)	Versions through 4.0
Paradox (Windows)	Versions through 1.0
Personal R:BASE	Version 1.0
R:BASE 5000	Versions through 3.1
R:BASE System V	Version 1.0
Reflex	Version 2.0
Q & A	Versions through 2.0
SmartWare II	Version 1.02

SPREADSHEET FORMATS

The following spreadsheet file formats can be converted:

File formats	Versions
Enable	Versions 3.0, 4.0, and 4.5
First Choice	Versions through 3.0
Framework	Version 3.0
Lotus 1-2-3 (DOS & Windows)	Versions through 5.0
Lotus 1-2-3 (OS/2)	Versions through 2.0
Lotus 1-2-3 Charts (DOS & Windows)	Versions through 5.0
Lotus 1-2-3 for SmartSuite	Versions 97–Millennium 9.6
Lotus Symphony	Versions 1.0, 1.1, and 2.0
Mac Works	Version 2.0
Microsoft Excel Charts	Versions 2.x–7.0
Microsoft Excel (Mac)	Versions 3.0–4.0, 98, 2001, 2002, 2004, and v.X
Microsoft Excel (Windows)	Versions 2.2 through 2007
Microsoft Multiplan	Version 4.0
Microsoft Works (Windows)	Versions through 4.0
Microsoft Works (DOS)	Versions through 2.0
Microsoft Works (Mac)	Versions through 2.0
Mosaic Twin	Version 2.5
Novell Perfect Works	Version 2.0
PFS:Professional Plan	Version 1.0
Quattro Pro (DOS)	Versions through 5.0 (text only)
Quattro Pro (Windows)	Versions through 12.0 (text only)
SmartWare II	Version 1.02

File formats	Versions
StarOffice/OpenOffice Calc (Windows and UNIX)	StarOffice versions 5.2–8.x and OpenOffice versions 1.1 and 2.0 (text only)
SuperCalc 5	Version 4.0
VP Planner 3D	Version 1.0

PRESENTATION FORMATS

The following presentation file formats can be converted:

File formats	Versions
Corel/Novell Presentations	Versions through 12.0
Harvard Graphics (DOS)	Versions 2.x and 3.x
Harvard Graphics (Windows)	Windows versions
Freelance (Windows)	Versions through Millennium 9.6
Freelance (OS/2)	Versions through 2.0
Microsoft PowerPoint (Windows)	Versions 3.0–2007
Microsoft PowerPoint (Mac)	Versions 4.0–v.X
StarOffice/OpenOffice Impress (Windows and UNIX)	StarOffice versions 5.2 (text only) and 6.x–8.x (full support) and OpenOffice versions 1.1 and 2.0 (text only)

GRAPHIC FORMATS

The following graphic file formats can be converted:

File formats	Versions
Adobe Photoshop (PSD)	All versions
Adobe Illustrator	Versions 7.0 and 9.0
Adobe FrameMaker graphics (FMV)	Vector/raster through 5.0
Adobe Acrobat (PDF)	Versions 1.0, 2.1, 3.0, 4.0, 5.0, 6.0, and 7.0 (including Japanese PDF)
Ami Draw (SDW)	Ami Draw
AutoCAD Interchange and Native Drawing formats (DXF and DWG)	AutoCAD Drawing Versions 2.5–2.6, 9.0–14.0, 2000i, and 2002
AutoCAD Drawing	Versions 2.5–2.6, 9.0–14.0, 2000i and 2002
AutoShade Rendering (RND)	Version 2.0
Binary Group 3 Fax	All versions
Bitmap (BMP, RLE, ICO, CUR, OS/2 DIB & WARP)	All versions
CALS Raster (GP4)	Type I and Type II
Corel Clipart format (CMX)	Versions 5–6
Corel Draw (CDR)	Versions 3.x–8.x
Corel Draw (CDR with TIFF header)	Versions 2.x–9.x
Computer Graphics Metafile (CGM)	ANSI, CALS NIST version 3.0
Encapsulated PostScript (EPS)	TIFF header only
GEM Paint (IMG)	All versions
Graphics Environment Mgr (GEM)	Bitmap and vector
Graphics Interchange Format (GIF)	All versions
Hewlett Packard Graphics Language (HPGL)	Version 2

File formats	Versions
IBM Graphics Data Format (GDF)	Version 1.0
IBM Picture Interchange Format (PIF)	Version 1.0
Initial Graphics Exchange Spec (IGES)	Version 5.1
JBIG2	JBIG2 graphic embeddings in PDF files
JFIF (JPEG not in TIFF format)	All versions
JPEG (including EXIF)	All versions
Kodak Flash Pix (FPX)	All versions
Kodak Photo CD (PCD)	Version 1.0
Lotus PIC	All versions
Lotus Snapshot	All versions
Macintosh PICT1 & PICT2	Bitmap only
MacPaint (PNTG)	All versions
Micrografx Draw (DRW)	Versions through 4.0
Micrografx Designer (DRW)	Versions through 3.1
Micrografx Designer (DSF)	Windows 95, version 6.0
Novell PerfectWorks (Draw)	Version 2.0
OS/2 PM Metafile (MET)	Version 3.0
Paint Shop Pro 6 (PSP)	Windows only, versions 5.0–6.0
PC Paintbrush (PCX and DCX)	All versions
Portable Bitmap (PBM)	All versions
Portable Graymap (PGM)	No specific version
Portable Network Graphics (PNG)	Version 1.0
Portable Pixmap (PPM)	No specific version
Postscript (PS)	Levels 1–2
Progressive JPEG	No specific version

File formats	Versions
Sun Raster (SRS)	No specific version
StarOffice/OpenOffice Draw (Windows and UNIX)	StarOffice versions 5.2–8.x and OpenOffice versions 1.1 and 2.0 (text only)
TIFF	Versions through 6
TIFF CCITT Group 3 & 4	Versions through 6
Truevision TGA (TARGA)	Version 2
Visio (preview)	Version 4
Visio	Versions 5, 2000, 2002, and 2003
WBMP	No specific version
Windows Enhanced Metafile (EMF)	No specific version
Windows Metafile (WMF)	No specific version
WordPerfect Graphics (WPG & WPG2)	Versions through 2.0
X-Windows Bitmap (XBM)	x10 compatible
X-Windows Dump (XWD)	x10 compatible
X-Windows Pixmap (XPM)	x10 compatible

COMPRESSED FORMATS

The following compressed file formats can be converted:

File formats	Versions
GZIP	
LZA Self Extracting Compress	
LZH Compress	
Microsoft Binder	Versions 7.0–97 (conversion of files contained in the Binder file is supported only on Windows)
UUEncode	
UNIX Compress	
UNIX TAR	
ZIP	PKWARE versions through 2.04g

E-MAIL FORMATS

The following e-mail file formats can be converted:

File formats	Versions
Microsoft Outlook Folder (PST)	Microsoft Outlook Folder and Microsoft Outlook Offline Folder files versions 97, 98, 2000, 2002, and 2003
Microsoft Outlook Message (MSG)	Microsoft Outlook Message and Microsoft Outlook Form Template versions 97, 98, 2000, 2002, and 2003
MIME	MIME-encoded mail messages. For details, see MIME Support Notes (page A-12).

MIME Support Notes

The following is detailed information about support for MIME-encoded mail message formats:

- ❖ MIME formats, including:
 - EML
 - MHT (Web Archive)
 - NWS (Newsgroup single-part and multi-part)
 - Simple Text Mail (defined in RFC 2822)
- ❖ TNEF Format
- ❖ MIME encodings, including:
 - base64 (defined in RFC 1521)
 - binary (defined in RFC 1521)
 - binhex (defined in RFC 1741)
 - btoa
 - quoted-printable (defined in RFC 1521)
 - utf-7 (defined in RFC 2152)
 - uue
 - xxe
 - yenc

Additionally, the body of a message can be encoded several ways. The following encodings are supported:

- ❖ Text
- ❖ HTML
- ❖ RTF
- ❖ TNEF
- ❖ Text/enriched (defined in RFC1523)
- ❖ Text/richtext (defined in RFC1341)
- ❖ Embedded mail message (defined in RFC 822). This is handled as a link to a new message.



Note: The attachments of a MIME message can be stored in many formats. All supported attachment types are processed.

OTHER FORMATS

The following other file formats can be converted:

File formats	Versions
Executable (EXE, DLL)	
HTML	Versions through 3.0 (with some limitations)
Macromedia Flash	Macromedia Flash 6.x, Macromedia Flash 7.x, and Macromedia Flash Lite (text only)
Microsoft Project	Versions 98–2003 (text only)
MP3	ID3 information
vCard, vCalendar	Version 2.1
Windows Executable	
WML	Version 5.2
XML	Text only
Yahoo! Instant Messenger	Versions 6.x and 7.x

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ZLIB LICENSE

* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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