



# **DataDirect** **XML Converters**<sup>™</sup>

## Installation Guide for Java

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DataDirect XQuery

DataDirect XML Converters

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# Preface

This book describes the procedure for installing DataDirect XML Converters™ by DataDirect Technologies from a CD-ROM or downloaded files.

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## What Are DataDirect XML Converters™?

DataDirect XML Converters™ are high-performance Java™ and .NET components that provide bi-directional, programmatic access to virtually any non-XML file including EDI, flat files, and other legacy formats. DataDirect XML Converters allow developers to seamlessly stream any non-XML data as XML to industry-leading XML processing components or to any application. They support StAX, SAX, XmlReader, XmlWriter, DOM and I/O streaming interfaces, and can be embedded directly for transformation purposes, or as part of a chain of programs including XSLT and XQuery, or even inside XML pipelines. DataDirect XML Converters maximize developer productivity and provide a fast, scalable solution for converting between EDI and other legacy formats and XML.

DataDirect XML Converters are designed for software developers and independent software vendors (ISVs) who need to convert and stream XML and non-XML files in XML applications.

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## Using This Book

This book can be used by system and database administrators and any users who need to install DataDirect XML Converters. It is assumed that you are familiar with the operation of your system, and that you understand how to navigate to directories on your For the latest information about DataDirect XML Converters, see the README file in your software package or refer to the DataDirect Technologies XML Converters Web site:

<http://www.xmlconverters.com>

NOTE: This book refers the reader to Web URLs for more information about specific topics, including Web URLs not maintained by DataDirect Technologies. Because it is the nature of Web content to change frequently, DataDirect Technologies can guarantee only that the URLs referenced in this book were correct at the time of publishing.

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## Typographical Conventions

This book uses the following typographical conventions:

Convention	Explanation
<i>italics</i>	Introduces new terms with which you may not be familiar, and is used occasionally for emphasis.
<b>bold</b>	Emphasizes important information. Also indicates button, menu, and icon names on which you can act. For example, click <b>Next</b> .
UPPERCASE	Indicates keys or key combinations that you can use. For example, press the ENTER key.
monospace	Indicates syntax examples, values that you specify, or results that you receive.

<b>Convention</b>	<b>Explanation</b>
<i>monospaced italics</i>	Indicates names that are placeholders for values that you specify. For example, <i>filename</i> .
forward slash /	Separates menus and their associated commands. For example, Select File / Copy means that you should select Copy from the File menu.  The slash also separates directory levels when specifying locations under UNIX.
vertical rule	Indicates an "OR" separator used to delineate items.
brackets [ ]	Indicates optional items. For example, in the following statement: SELECT [DISTINCT], DISTINCT is an optional keyword.  Also indicates sections of the Windows Registry.
braces { }	Indicates that you must select one item. For example, {yes   no} means that you must specify either yes or no.
ellipsis . . .	Indicates that the immediately preceding item can be repeated any number of times in succession. An ellipsis following a closing bracket indicates that all information in that unit can be repeated.

---

## About the Product Documentation

The DataDirect XML Converters library consists of the following books:

- *DataDirect XML Converters Installation Guide for Java* describes the requirements and procedures for installing DataDirect XML Converters.
- *DataDirect XML Converters User's Guide and Reference for Java* provides information about using DataDirect XML Converters to write applications that provide bi-directional, programmatic access to any non-XML files including EDI, flat files, and other legacy formats.

### HTML Version

An HTML version of the DataDirect XML Converters documentation is placed on your system during a normal installation of the product. This documentation is located in the \help subdirectory of the product installation directory. To use the help, you must have one of the following browsers installed:

- Internet Explorer 5.x or higher
- Netscape 4.x, 6.1, or higher
- FireFox 1.0 or higher

The HTML documentation is available on the product CD and also on the DataDirect Technologies XML Converters Web site:

<http://www.xmlconverters.com>

On Windows, you can access the HTML documentation by double-clicking the help.html file in the DataDirect XML Converters \help directory.

On UNIX and Linux platforms, you can access the HTML documentation by opening the following file from within your browser:

```
install_dir/help/help.htm
```

where *install\_dir* is the path to the product installation directory.

Or, from a command-line environment, at a command prompt, enter:

```
browser_exe install_dir/help/help.htm
```

where *browser\_exe* is the name of your browser executable and *install\_dir* is the path to the product installation directory.

**NOTE:** Security features set in your browser can prevent the HTML documentation from launching. A security warning message is displayed. Often, the warning message provides instructions for unblocking the HTML documentation for the current session. To allow the HTML documentation to launch without encountering a security warning message, the security settings in your browser can be modified. Check with your system administrator before disabling any security features.

## PDF Version

DataDirect product documentation is also provided in PDF format, which allows you to view it, perform text searches, or print it. This documentation is located in the `\doc` subdirectory of the product installation directory.

You can view the PDF documentation using the Adobe Acrobat Reader. The PDF documentation is available on the product CD and also on the DataDirect Technologies XML Converters Web site:

<http://www.xmlconverters.com>

## Javadoc

DataDirect XML Converters provides Javadoc for the XML Converters packages. This system is installed when you install DataDirect XML Converters.

Files for the DataDirect XML Converters Javadoc are written to the \javadoc directory where you installed DataDirect XML Converters.

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## Contacting Technical Support

DataDirect Technologies offers a variety of options to meet your technical support needs. Please visit our Web site for more details and for contact information:

<http://support.datadirect.com>

The DataDirect Technologies Web site provides the latest support information through our global service network. The SupportLink program provides access to support contact details, tools, patches, and valuable information, including a list of FAQs for each product. In addition, you can search our Knowledgebase for technical bulletins and other information.

To obtain technical support for an evaluation copy of the product, contact your sales representative or go to:

[http://www.datadirect.com/support/eval\\_help/index.ssp](http://www.datadirect.com/support/eval_help/index.ssp)

When you contact us for assistance, please provide the following information:

- The serial number that corresponds to the product for which you are seeking support, or a case number if you have been provided one for your issue. If you do not have a SupportLink contract, the SupportLink representative assisting you will connect you with our Sales team.
- Your name, phone number, email address, and organization. For a first-time call, you may be asked for full customer information, including location.
- The DataDirect product and the version that you are using.
- The type and version of the operating system where you have installed your DataDirect product.
- Any EDI, flat file, legacy file, custom XML conversion definition, or other environment information required to understand the problem.
- A brief description of the problem, including, but not limited to, any error messages you have received, what steps you followed prior to the initial occurrence of the problem, any trace logs capturing the issue, and so on. Depending on the complexity of the problem, you may be asked to submit an example or reproducible application so that the issue can be recreated.
- A description of what you have attempted to resolve the issue. If you have researched your issue on Web search engines, our Knowledgebase, or have tested additional configurations, applications, or other vendor products, you will want to carefully note everything you have already attempted.
- A simple assessment of how the severity of the issue is impacting your organization.



# 1 Before You Install

Before you install DataDirect XML Converters, verify that your system meets the requirements described in this chapter.

---

## Disk Requirements

A complete installation of DataDirect XML Converters, including optional online books and code examples, requires approximately 25 MB of available hard disk space. See the README for additional information.

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## Operating System Requirements

DataDirect XML Converters are supported on any platform supported by Sun Java Virtual Machine 1.4 or greater.

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## J2SE Requirements

Make sure that the Java Virtual Machine is on your path. J2SE 1.4.x or later is required for using DataDirect XML Converters.



## 2 Installing DataDirect XML Converters™

Before you start installation, see [Chapter 1 “Before You Install” on page 15](#) and verify that your system meets the requirements described there.

---

### Installation Media

Installation media for DataDirect XQuery is available on CD-ROM and from the DataDirect Web site (<http://www.datadirect.com>).

If you are installing using

- The DataDirect CD-ROM, go to [“Mounting the DataDirect Technologies CD” on page 19](#).
- Media downloaded from the DataDirect Web site, go to [“Installation Procedures” on page 21](#).

---

### Evaluation Installations

The installer allows you to install DataDirect XML Converters for a 15-day evaluation.

---

## Installer Directory

Choose an *installer* directory for the DataDirect XML Converters installer. The installer directory is the directory in which you save the `32_xmlconverters.jar` file.

The installer directory can also be the *installation* directory for DataDirect XML Converters, but does not need to be. You can choose another installation directory during the installation procedure.

---

## Default Installation Directory

The Setup program lets you specify the directory into which the DataDirect XML Converters will be installed. By default, the Setup program creates and installs the DataDirect XML Converters in the directory from which you run the installer.

---

## What Is Installed?

The DataDirect XML Converters installer installs the following components:

- DataDirect XML Converters.
- DataDirect XML Converters online books in PDF format are optionally placed in the `/doc` subdirectory in your DataDirect XML Converters installation directory.
- DataDirect XML Converters examples are optionally placed in the `/examples` subdirectory in your DataDirect XML Converters installation directory.

- DataDirect XML Converters online help in HTML format is placed in the /help subdirectory in your DataDirect XML Converters installation directory.
- DataDirect XML Converters Javadoc documentation is optionally placed in the /javadoc subdirectory in your DataDirect XML Converters installation directory.
- The following files are installed at the installation directory root:
  - DataDirect XML Converters README.
  - 3rdPartySoftware.txt, which lists third-party software used in DataDirect XML Converters.
  - fixes.txt, which lists fixes from the previous version of the product.
  - license.htm, the End User Product License Agreement. This document is also displayed during installation.

See [“About the Product Documentation”](#) on page 10 for details about the online books.

---

## Mounting the DataDirect Technologies CD

Follow the instructions in this section to mount your DataDirect Technologies CD. Separate instructions for Windows and UNIX/Linux are provided.

## On Windows

### To install DataDirect XML Converters from a CD:

- 1 Insert the CD into the CD drive. If the CD drive is on a network, you must mount the CD and create a mapping to the CD drive.
- 2 On Windows, the main installer window displays automatically when the CD is mounted if AutoPlay for CDs is enabled, and you have a browser installed. Select the product that you want to install.

If AutoPlay for CDs is not enabled or you do not have a browser, use Windows Explorer to navigate from the root directory of the CD to the folder for the product that you want to install. Then, double-click the Setup program.

See [“GUI Installation”](#) for details about the installation process.

## On UNIX and Linux

Insert the CD into the CD drive. On Solaris, by default, the CD-ROM drive mounts automatically when you insert the CD. Other UNIX/Linux platforms may or may not automatically mount the CD by default. If your workstation is not configured to mount a CD automatically, follow the applicable instruction:

- For HP-UX, enter the following commands:

```
# /usr/sbin/pfs_mountd&  
# /usr/sbin/pfsd&  
# pfs_mount -o xlat=unix /dev/rdisk/deviceName /cdrom
```

where *deviceName* is the device name assigned to your CD-ROM drive. The device name can be found using the HP-UX tool `sam`. When installation is complete, unmount the CD-ROM with the command:

```
# /usr/sbin/pfs_umount /cdrom
```

For example, if the device name for your CD-ROM drive is `/dev/rdisk/c0t4d0` and you want to mount it over the directory `/cdrom`, enter the following command:

```
# pfs_mount -o xlat=unix /dev/rdisk/c0t4d0 /cdrom
```

- For IBM-AIX, enter:

```
# mount -r -v cdrfs /dev/deviceName /cdrom
```

where *deviceName* is the device name assigned to your CD-ROM drive. The device name can be found using the IBM-AIX System Management Interface Tool (SMIT).

- For Linux, enter:

```
# mount -r -t iso9660 /dev/deviceName /mnt/cdrom
```

where *deviceName* is the device name assigned to your CD-ROM drive.

---

## Installation Procedures

You can install DataDirect XML Converters using

- A graphic user interface (a GUI). See [“GUI Installation”](#) for instructions.
- The command line. See [“Command-Line Installation”](#) for instructions.

Regardless of which method you use, note the following before you begin:

- Make sure that your Java Virtual Machine is on your path. J2SE 1.4.x or later is required to use DataDirect XML Converters.

- Choose an *installer* directory for the DataDirect XML Converters installer. This can also be the *installation* directory for DataDirect XML Converters, but does not need to be. You can choose another installation directory during the installation procedure.

## GUI Installation

To install DataDirect XML Converters using a GUI:

- 1 Locate the DataDirect XQuery jar file, `32_xmlconverters.jar`, in the `/xmlconverters` directory on the DataDirect Technologies CD, or locate the downloadable product on the DataDirect Web site (<http://www.datadirect.com>). Copy or download the `32_xmlconverters.jar` file to the installer directory you have chosen.

- 2 From the installer directory, enter the following command at a command prompt:

```
java -jar 32_xmlconverters.jar
```

Alternative: Double-click the `32_xmlconverters.jar` file.

The DataDirect XML Converters setup welcome window appears.

- 3 Click **Next** to start the installation.

The License Agreement window appears.

NOTE: You can exit the Setup program at any time by clicking **Cancel**, or return to the previous window by clicking **Back**.

- 4 Make sure that you read and understand the license agreement. To continue with the installation, select the **I accept the terms in the license agreement** option; then, click **Next**.

The Installation Type window appears. You use this window to specify whether you are installing an evaluation

installation or a licensed installation of DataDirect XQuery. Evaluation installation is the default.

5 If you are installing:

- An *evaluation* installation, go to [Step 7](#).
- A *licensed* installation, select Licensed installation, and click the **Next** button.

The License Key window appears. Go to [Step 6](#).

6 Enter the 8-character product key in the Enter Key field, and click the **Add** button. If you were issued multiple product keys, add them to the Enter Key field one at a time, clicking **Add** each time.

A description of the XML Converter associated with the key you enter appears in the Product Support for: field.

To remove an XML Converter, select it in the Product support for: list box and click the **Remove** button.

7 Click **Next** to continue with the installation.

The Optional Components window appears. You use this window to choose the components you want to install.

The DataDirect XML Converters and DataDirect XML Converters Online Help options are grayed out because both are required for installation.

The following components are selected for installation by default, but you can change that setting if you like:

- DataDirect XML Converters online books (in PDF).
- DataDirect XML Converters Examples. If you are reinstalling the product and have reconfigured the examples, you may **not** want to reinstall the examples. In this case, clear the **Install DataDirect XML Converters Examples** option.

- Javadoc for DataDirect XML Converters.
- 8 Review the settings for the individual components to be installed and click **Next** to continue.

The Ready to Install DataDirect XML Converters window appears, providing you with the opportunity to review your installation choices.

- 9 Click **Back** to revise your choices, or click **Install** to continue with the installation.

When you click **Install**, DataDirect XML Converters, the online help and any optional components you selected are installed. After a moment, the Setup Completed window appears.

- 10 Choose whether or not you want to launch the QuickStart guide (a brief guide to getting started with DataDirect XML Converters) when you exit the setup program, and then click **Finish** to exit the installer.

## Command-Line Installation

To install DataDirect XML Converters using a command line:

- 1 Locate the DataDirect XML Converters jar file, `32_xmlconverters.jar`, in the `/xmlconverters` directory on the DataDirect Technologies CD, or locate the downloadable product on the DataDirect Web site(<http://www.datadirect.com>). Copy or download the jar file to the installer directory you have chosen.
- 2 Switch to the installer directory, and use one of the following methods to extract the contents of the `32_xmlconverters.jar` file:
  - **On Windows:** Use the WinZip utility to open the `32_xmlconverters.jar` file. Extract the contents of the jar file to the installer directory.

- **On Windows or other operating systems:** At a command prompt, change to the installer directory and unjar the contents of the 32\_xmlconverters.jar file by entering the following command:

```
jar -xvf 32_xmlconverters.jar
```

Either method extracts the necessary files into the installer directory.

- 3 At a command prompt, enter the following command:

```
java -jar XMLConvertersInstaller.jar -e {yes|no} -b {yes|no} -j {yes|no}
-k key[{:|,}key]... -d install_dir
```

where:

- e {yes | no}. If yes, the DataDirect XML Converters examples are installed. The examples are installed in the /examples subdirectory of the installation directory. Note that if you are reinstalling the product and have reconfigured the examples, you may **not** want to reinstall the examples. In this case, set this property to no.
- b {yes | no}. If yes, the DataDirect XML Converters library is installed. The books are installed in the /doc subdirectory of the installation directory.
- j {yes | no}. If yes, the DataDirect XML Converters Javadoc is installed in the /doc/javadoc subdirectory of the installation directory.

`-k key[{:|,}key]...` Specifies your product licensing information, where *key* is the product key you received from DataDirect Technologies. If you were issued multiple product keys, you can enter them sequentially using the same command, separating the keys with a semicolon (;) or a comma (,). For example:

```
-k xxxxkey1;xxxxkey2;xxxxkey3
```

or

```
-k xxxxkey1,xxxxkey2,xxxxkey3
```

**NOTE FOR UNIX/LINUX USERS:** If you choose to use semicolons to separate multiple keys, you must enclose the entire key string in double quotes. For example, the following key string installs all products associated with the entered keys:

```
-k "xxxxkey1;xxxxkey2;xxxxkey3"
```

To install an evaluation copy of DataDirect XML Converters, enter `eval` as the key value. For example, the following key and value installs a 15-day evaluation copy of DataDirect XML Converters:

```
-k eval
```

`-d install_dir`

Specifies the full path, including the drive letter on Windows machines, to the DataDirect XML Converters installation directory.

**NOTE:** If the directory path contains spaces, you must enclose the path name with double quotes. For example:

```
-d "C:\Program Files\DataDirect\  
XML Converters"
```

- 4 If DataDirect XML Converters is successfully installed, a message appears confirming the installation.

### ***Example on Windows***

```
java -jar XMLConvertersInstaller.jar -e yes -b yes -j yes  
-k xxxxkey1;xxxxkey2 -d "C:\Program Files\DataDirect\DataDirect XML  
Converters"
```

This DataDirect XML Converters command-line example performs the following actions:

- Installs the DataDirect XML Converters examples (-e yes).
- Installs the DataDirect XML Converters online books (-b yes).
- Installs the DataDirect XML Converters Javadoc (-b yes).
- Installs multiple DataDirect XML Converters products (-k xxxxkey1;xxxxkey2).
- Installs the components to the installation directory C:\Program Files\DataDirect\DataDirect XML Converters (-d "C:\Program Files\DataDirect\DataDirect XML Converters"). Note that because the directory path contains spaces, it is enclosed by double quotes.

## ***Example on UNIX/Linux***

```
java -jar XMLConvertersInstaller.jar -e yes -b yes -j yes -k xxxxkey1  
-d /home/user/DataDirect/DataDirect_XMLConverters
```

This DataDirect XML Converters command-line example performs the following actions:

- Installs the DataDirect XML Converters examples (-e yes).
- Installs the DataDirect XML Converters online books (-b yes).
- Installs the DataDirect XML Converters Javadoc (-b yes).
- Installs only one DataDirect XML Converters product (-k xxxxkey1). See the previous Windows example for an example of how to specify multiple keys, but remember to enclose the entire key string in double quotes if you use a semicolon to separate the keys.
- Installs the components to the installation directory /home/user/DataDirect/DataDirect\_XML Converters (-d /home/user/DataDirect/DataDirect\_XMLConverters). Because the directory path does not contain spaces, it is not enclosed by double quotes.

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# Getting Started with DataDirect XML Converters™

To get started with DataDirect XML Converters immediately after installation, refer to the *DataDirect XML Converters Quick Start*. This document is optionally displayed at the end of a successful installation. You can also find it in the \help directory where you installed the DataDirect XML Converters, or on the DataDirect XML Converters web site:

<http://www.xmlconverters.com>

To take full advantage of the many DataDirect XML Converters features, we recommend that you read the *DataDirect XML Converters User's Guide and Reference for Java*.

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## Upgrading an Evaluation Installation to a Licensed Installation

When you upgrade from an evaluation installation to a licensed installation, you reinstall DataDirect XML Converters. If you have made changes to DataDirect XML Converters files (such as to the examples, for example) that you want to save, move those files to a new location before reinstalling the XML Converters.

- 1 Contact your DataDirect Sales representative to purchase a license.
- 2 Follow the procedure for installation on "[Installation Procedures](#)" on page 21.
  - **For GUI installations:** When asked to choose an installation type, select the **Licensed installation** option. When asked to enter your product license information,

add the product license key or keys provided to you by DataDirect Technologies.

- **For command-line installations:** Instead of specifying `-k eval`, enter `-k xxxxxkey1`. See [“Command-Line Installation” on page 24](#) for more details on the syntax required for entering product license key.

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## Extending an Evaluation Installation

To extend a DataDirect XML Converters evaluation installation, contact your DataDirect Sales representative.

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## Uninstalling

To uninstall DataDirect XML Converters, delete the entire installation directory.

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## For More Information

We recommend that you read the README that accompanies DataDirect XML Converters for current information regarding this release.

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