



DataDirect XQuery[®]

Installation Guide

Release 5.0
October 2009

©2009 Progress Software Corporation and/or its subsidiaries or affiliates. All rights reserved.

These materials and all Progress® software products are copyrighted and all rights are reserved by Progress Software Corporation. The information in these materials is subject to change without notice, and Progress Software Corporation assumes no responsibility for any errors that may appear therein. The references in these materials to specific platforms supported are subject to change.

Actional, Actional (and design), Allegrix, Allegrix (and design), Apama, Apama (and Design), Artix, Business Empowerment, DataDirect (and design), DataDirect Connect, DataDirect Connect64, DataDirect Technologies, DataDirect XML Converters, DataDirect XQuery, DataXtend, Dynamic Routing Architecture, EdgeXtend, Empowerment Center, Fathom, IntelliStream, IONA, IONA (and design), Making Software Work Together, Mindreef, Neon, Neon New Era of Networks, ObjectStore, OpenEdge, Orbix, PeerDirect, Persistence, POSSENET, Powered by Progress, PowerTier, Progress, Progress DataXtend, Progress Dynamics, Progress Business Empowerment, Progress Empowerment Center, Progress Empowerment Program, Progress OpenEdge, Progress Profiles, Progress Results, Progress Software Developers Network, Progress Sonic, ProVision, PS Select, SequeLink, Shadow, SOAPscope, SOAPStation, Sonic, Sonic ESB, SonicMQ, Sonic Orchestration Server, Sonic Software (and design), SonicSynergy, SpeedScript, Stylus Studio, Technical Empowerment, WebSpeed, Xcalia (and design), and Your Software, Our Technology-Experience the Connection are registered trademarks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and/or other countries. AccelEvent, Apama Dashboard Studio, Apama Event Manager, Apama Event Modeler, Apama Event Store, Apama Risk Firewall, AppsAlive, AppServer, ASPen, ASP-in-a-Box, BusinessEdge, Business Making Progress, Cache-Forward, DataDirect Spy, DataDirect SupportLink, FUSE, FUSE Mediation Router, FUSE Message Broker, FUSE Services Framework, Future Proof, GVAC, High Performance Integration, ObjectStore Inspector, ObjectStore Performance Expert, OpenAccess, Orbacus, Pantero, POSSE, ProDataSet, Progress ESP Event Manager, Progress ESP Event Modeler, Progress Event Engine, Progress RFID, Progress Software Business Making Progress, PSE Pro, SectorAlliance, SeeThinkAct, Shadow z/Services, Shadow z/Direct, Shadow z/Events, Shadow z/Presentation, Shadow Studio, SmartBrowser, SmartComponent, SmartDataBrowser, SmartDataObjects, SmartDataView, SmartDialog, SmartFolder, SmartFrame, SmartObjects, SmartPanel, SmartQuery, SmartViewer, SmartWindow, Sonic Business Integration Suite, Sonic Process Manager, Sonic Collaboration Server, Sonic Continuous Availability Architecture, Sonic Database Service, Sonic Workbench, Sonic XML Server, StormGlass, The Brains Behind BAM, WebClient, Who Makes Progress, and Your World. Your SOA are trademarks or service marks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and other countries. Java and all Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. MySQL and MySQL Enterprise are registered trademarks of MySQL AB in the United States, the European Union and other countries. Any other trademarks or service marks contained herein are the property of their respective owners.

Third Party Acknowledgments:

DataDirect products for the Microsoft SQL Server database:

These products contain a licensed implementation of the Microsoft TDS Protocol.

Stylus Studio includes:

Xerces c++ developed by the Apache Software Foundation ([http:// www.apache.org/](http://www.apache.org/)). Copyright ©

1999-2006 the Apache Software Foundation. All rights reserved.

XercesJ developed by the Apache Software Foundation ([http:// www.apache.org/](http://www.apache.org/)). Copyright © 1999-2006 the Apache Software Foundation. All rights reserved.

FOP developed by the Apache Software Foundation ([http:// www.apache.org/](http://www.apache.org/)). Copyright © 1999-2006 the Apache Software Foundation. All rights reserved.

Axis developed by the Apache Software Foundation ([http:// www.apache.org/](http://www.apache.org/)). Copyright © 1999-2006 the Apache Software Foundation. All rights reserved.

The names "Xalan", "FOP", and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. For written permission, please contact apache@apache.org.

Files that are subject to the DSTC Public License (DPL) Version 1.1 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.dstc.com>. Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License. The Original Code is xs3p. The Initial Developer of the Original Code is DSTC. Portions created by DSTC are Copyright © 2002. All rights reserved.

Pathan developed by DecisionSoft Limited. Copyright © 2001 DecisionSoft Limited. All rights reserved.

Software developed by Thai Open Source Software Center Ltd. Copyright © 2001-2003, Thai Open Source Software Center Ltd. All rights reserved.

IBM ICU developed by IBM. Copyright © 1995-2003 International Business Machines Corporation and others. All rights reserved. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

Software developed by Kevin Atkinson. Copyright © 2000-2004, by Kevin Atkinson. All rights reserved.

Aspell 0.60.2, from the Free Software Foundation, Inc. (<http://www.fsf.org/>), which is subject to the GNU Lesser General Public License Version 2.1 (<http://www.gnu.org/licenses/lgpl.html>). Software distributed under this license is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the license for the specific language governing rights and limitations under the license.

Software developed by xqDoc.org. Copyright © 2005 Elsevier, Inc. All rights reserved.

Software developed by Info-ZIP. Copyright © 1990-2004 Info-ZIP. All rights reserved. For the purposes of this copyright and license, "Info-ZIP" is defined as the following set of individuals: Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois, Jean-loup Gailly, Hunter Goatley, Ian Gorman, Chris Herborth, Dirk Haase, Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz, David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko, Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs, Kai Uwe Rommel, Steve Salisbury, Dave Smith, Christian Spieler, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White. Info-ZIP software is provided "as is", without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Software developed by Tim Bray and Sun Microsystems and is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. Copyright © 2004 Tim Bray and Sun Microsystems. All rights reserved.

Software developed by Saxonica Limited and is distributed on an "AS IS" basis WITHOUT WARRANTY OF ANY KIND, either express or implied. Copyright © 2005 Saxonica Limited. All rights reserved.

Software developed by The Anti-Grain Geometry Project. Copyright © 2002-2005 Maxim Shemanarev (McSeem). This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

DataDirect XML Converters. Copyright 2004 - 2009 Progress Software Corporation and/or its subsidiaries or affiliates. All rights reserved.

DataDirect XQuery. Copyright 2004 - 2009 Progress Software Corporation and/or its subsidiaries or affiliates. All rights reserved.

DataDirect XML Converters includes:

Software developed by World Wide Web Consortium. Copyright (c) 1998-2003 World Wide Web Consortium (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University). All Rights Reserved.

Software developed by World Wide Web Consortium. Copyright (c) 1998-2000 World Wide Web Consortium (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved.

Software developed by JSON.org. Copyright (c) 2002 JSON.org. All rights reserved.

DataDirect XQuery includes:

XQJ 225 XQuery API for Java 1.0 Reference Implementation. Copyright (c) 2003 -2007 Oracle. THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED, IMPLIED OR STATUTORY WARRANTIES, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT SHALL ORACLE OR ITS LICENSORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ORACLE IS ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

September 2009

Table of Contents

Preface	7
What Is DataDirect XQuery®?	7
Using This Book	8
Typographical Conventions	8
About the Product Documentation	9
HTML Version	10
PDF Version	11
Contacting Technical Support	12
1 Before You Install	15
System and Product Requirements	15
DataDirect XQuery®	15
Kerberos Authentication	15
NTLM Authentication	17
Note Regarding J2SE Installations	19
Data Sources	19
XML Data Sources	19
Relational Data Sources	20
2 Installing DataDirect XQuery®	23
What Is Installed?	23
Installation Media	24
Mounting the CD	24
On Windows	24
On UNIX and Linux	25

Installation Procedures. 26

 GUI Installation. 27

 Command-Line Installation 32

Getting Started with DataDirect XQuery® 35

Adding Database Support to an Installation 36

Upgrading to a Licensed Installation 36

Extending an Evaluation Installation 37

Uninstalling. 37

For More Information 37

Index 39

Preface

This book describes the procedure for installing DataDirect XQuery® from a CD-ROM or downloaded files from the DataDirect Technologies Web site.

What Is DataDirect XQuery®?

The DataDirect XQuery product is an XQuery processor that enables developers to access and query XML, relational data, SOAP messages, EDI, legacy, or a combination of data sources, and, in addition, provides full update support for relational data. DataDirect XQuery supports the XQuery API for Java™ (XQJ), and is easily embeddable into any Java program; it does not require any other product or application server, and has no server of its own. It is recommended for developers who need to combine and efficiently process XML, relational, and legacy data formats in application scenarios such as data integration, XML-based data exchange, XML-driven web sites, and XML publishing. DataDirect XQuery vastly simplifies and enhances the performance of combining and processing different types of data (relational, XML, legacy, EDI, and more) in heterogeneous environments and, thus, enables developers to build and deploy high-performance applications quickly and efficiently.

To query non-XML formats with DataDirect XQuery, you can use DataDirect XML Converters™. The XML Converters translate many non-XML formats into XML, including EDI messages, delimited text files, dBASE files, RTF files, and many more. More details about the XML Converters are available at:

<http://www.datadirect.com/products/data-integration/index.ssp>

Using This Book

This book assumes that you are familiar with your operating system and its commands; the concept of directories; the management of user accounts and security access; and your network configuration.

This book explains how to install DataDirect XQuery on Windows and UNIX/Linux operating systems.

NOTE: This book refers the reader to Web pages using URLs for more information about specific topics, including Web pages 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.

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.
bold	Emphasizes important information. Also indicates button, menu, and icon names on which you can act. For example, click Next .
UPPERCASE	Indicates keys or key combinations that you can use. For example, press the ENTER key. Also used for SQL reserved words.
monospace	Indicates syntax examples, values that you specify, or results that you receive.

Convention	Explanation
<i>monospaced italics</i>	Indicates names that are placeholders for values that you specify. For example, <i>filename</i> .
forward slash /	<p>Separates menus and their associated commands. For example, Select File / Copy means that you should select Copy from the File menu.</p> <p>The slash also separates directory levels when specifying locations under UNIX.</p>
vertical rule	Indicates an "OR" separator used to delineate items.
brackets []	<p>Indicates optional items. For example, in the following statement: SELECT [DISTINCT], DISTINCT is an optional keyword.</p> <p>Also indicates sections of the Windows Registry.</p>
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 XQuery library consists of the following books:

- *DataDirect XQuery Installation Guide* describes the requirements and procedures for installing DataDirect XQuery.
- *[DataDirect XQuery User's Guide and Reference](#)* provides information about using DataDirect XQuery to access both XML and relational sources.

Both of these documents are available in HTML and PDF format. By default, the HTML version is installed during a normal

installation of DataDirect XQuery. The PDF version is an optional installation. If you choose to install the PDF version, the books are installed in the `books\ddxquery` subdirectory of the DataDirect XQuery installation directory.

HTML Version

Both of the DataDirect XQuery books are placed on your system as HTML-based online Help during a normal installation of the product. The Help system is located in the `help` subdirectory of the product installation directory.

Browser Requirements

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

Accessing Online Help

You can access the Help system by navigating to the `help` subdirectory of the product installation directory and opening the following file from within your browser:

`install_dir/help/help.htm`

where `install_dir` is the path to your product installation directory.

After the browser opens, the left pane displays the Table of Contents, Index, and Search tabs for the entire documentation library. When you have opened the main screen of the Help system in your browser, you can bookmark it in the browser for quick access later.

NOTE: Security features set in your browser can prevent the Help system from launching. A security warning message is displayed. Often, the warning message provides instructions for unblocking the Help system for the current session. To allow the Help system 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, and print it. You can view the PDF documentation using Adobe Reader. The PDF documentation is available on the product CD, as a product installation component, and also on the DataDirect Technologies Web site:

<http://www.datadirect.com/techres/xqueryproddoc/index.ssp>

You can download the entire library as a compressed file. When you uncompress the file, the library will appear in the correct directory structure.

If you want to copy the documentation library from the product CD, you must maintain the same directory structure that is on the CD.

- **To copy all product books**, copy the entire \books directory to your local or network drive.
- **To copy a specific set of books**, copy that book set's directory structure (beneath the \books directory) to your local or network drive. For example, in the case of:

`\books\product_name`

you would copy the entire `\product_name` directory.

Maintaining the correct directory structure allows cross-book text searches and cross-references. If you download or copy the books individually outside of their normal directory structure, their cross-book search indexes and hyperlinked cross-references to other books will not work. You can view a book individually, but it will not automatically open other books to which it has cross-references.

To help you navigate through the library, a file named `books.pdf` is provided. This file lists each online book provided for the product. We recommend that you open this file first and, from this file, open the book you want to view.

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, go to:

http://www.datadirect.com/support/eval_help/index.ssp

or contact your sales representative.

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 database, database version, third-party software, 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 XQuery, verify that your system meets the requirements described in this chapter and that your database version is supported.

System and Product Requirements

This section describes the system and product requirements for DataDirect XQuery.

DataDirect XQuery®

- For disk space requirements, refer to the DataDirect XQuery README file.
- Make sure that your Java Virtual Machine is on your path. J2SE 1.4.x or later is required for using DataDirect XQuery.

Kerberos Authentication

Kerberos authentication is a trusted third-party authentication service. Kerberos authentication can take advantage of the user name and password maintained by the operating system to authenticate users to the database or use another set of user credentials specified by the application.

DataDirect XQuery supports Kerberos authentication for the following databases:

- DB2
- Microsoft SQL Server
- Oracle
- Sybase

Verify that your environment meets the requirements listed in [Table 1-1](#) before you configure DataDirect XQuery for Kerberos authentication.

Table 1-1. Kerberos Authentication Requirements

Component	Requirements
Database server	<p>The database server must be running one of the following databases:</p> <p>DB2:</p> <ul style="list-style-type: none">■ DB2 v8.x or DB2 v9.x for Linux/UNIX/Windows <p>Oracle:</p> <ul style="list-style-type: none">■ Oracle 11g■ Oracle 10g (R1 and R2) <p>Microsoft SQL Server:</p> <ul style="list-style-type: none">■ Microsoft SQL Server 2005■ Microsoft SQL Server 2000■ Microsoft SQL Server 2000 Enterprise Edition (64-bit) Service Pack 2 or higher <p>Sybase:</p> <ul style="list-style-type: none">■ Sybase 12.5.1 or higher

Table 1-1. Kerberos Authentication Requirements (cont.)

Component	Requirements
Kerberos server	<p>The Kerberos server is the machine where the user IDs for authentication are administered. The Kerberos server is also the location of the Kerberos Key Distribution Center (KDC). If using Windows Active Directory, this machine is also the domain controller.</p> <p>DB2, Oracle, and Sybase:</p> <p>Network authentication must be provided by one of the following methods:</p> <ul style="list-style-type: none"> ■ Windows Active Directory on one of the following operating systems: <ul style="list-style-type: none"> • Windows Server 2003 • Windows 2000 Server Service Pack 3 or higher ■ MIT Kerberos 1.4.2 or higher <p>Microsoft SQL Server:</p> <p>Network authentication must be provided by Windows Active Directory on one of the following operating systems:</p> <ul style="list-style-type: none"> ■ Windows Server 2003 ■ Windows 2000 Server Service Pack 3 or higher

NTLM Authentication

NTLM authentication is a single sign-on OS authentication method. This method provides authentication from Windows clients only and requires minimal configuration.

DataDirect XQuery supports NTLM authentication for the following databases:

- Oracle
- Microsoft SQL Server

Verify that your environment meets the requirements listed in [Table 1-2](#) before you configure DataDirect XQuery for NTLM authentication.

Table 1-2. NTLM Authentication Requirements

Component	Requirements
Database server	<p>The database server must be administered by the same domain controller that administers the client and must be running one of the following databases:</p> <p>Oracle:</p> <ul style="list-style-type: none">■ Oracle 11g■ Oracle 10g (R1 and R2)■ Oracle 9i (R1 and R2) <p>Microsoft SQL Server:</p> <ul style="list-style-type: none">■ Microsoft SQL Server 2005■ Microsoft SQL Server 2000 Service Pack 3 or higher■ Microsoft SQL Server 2000 Enterprise Edition (64-bit) Service Pack 2 or higher
Domain controller	<p>The domain controller must administer both the database server and the client. Network authentication must be provided by NTLM on one of the following operating systems:</p> <ul style="list-style-type: none">■ Windows Server 2003■ Windows 2000 Server Service Pack 3 or higher
Client	<p>The client must be administered by the same domain controller that administers the database server and must be running on one of the following operating systems:</p> <ul style="list-style-type: none">■ Windows Vista■ Windows Server 2003■ Windows XP Service Pack 1 or higher■ Windows 2000 Service Pack 4 or higher■ Windows NT 4.0

Note Regarding J2SE Installations

Standard installations of J2SE on some platforms do not include the jar file containing the extended encoding set that is required to support some of the less common database code pages. To verify whether your J2SE version provides extended code page support, check your J2SE installation for the charsets.jar file, which must be installed in the lib subdirectory of your J2SE installation directory. If you do not have the charsets.jar file, re-install J2SE, making sure that you install the international version of J2SE.

Data Sources

You can use DataDirect XQuery to access both XML and relational data sources.

XML Data Sources

The XML data sources that DataDirect XQuery can access have the following physical formats:

- XML text files/streams. These files/streams can be accessed using `fn:doc()`, which supports the `http:`, `ftp:`, and `file:` URI schemes and DataDirect XML Converters URI schemes.

NOTE: DataDirect XQuery also allows you to query multiple files in a specified directory using `fn:collection()`.

More details about the XML Converters are available at:

<http://www.datadirect.com/products/data-integration/index.ssp>

- XML contained in a Java application. This type of XML can be bound to the initial context item or to external variables in XQJ and used in XQuery queries.

- XML stored in columns of any supported relational database using an XML data type.
- XML stored in character columns of any supported relational database.

Refer to the [DataDirect XQuery User's Guide and Reference](#) for details on accessing XML.

Relational Data Sources

DataDirect XQuery supports the following relational databases.

Table 1-3. DataDirect XQuery Relational Database Support	
Database	Supported Versions
DB2	<ul style="list-style-type: none">■ V9.5 for Linux, UNIX, and Windows■ V9.1 for Linux/UNIX/Windows■ V9.1 for z/OS (formerly OS/390)
DB2 Universal Database (UDB)	<ul style="list-style-type: none">■ v8.2 for Linux/UNIX/Windows■ v8.2 for Linux/UNIX/Windows■ v8.1 for z/OS■ V5R4 for iSeries (formerly AS/400)■ V5R3 for iSeries (formerly AS/400)■ V5R2 for iSeries (formerly AS/400)
Informix Dynamic Server	<ul style="list-style-type: none">■ 11■ 10■ 9.4
Microsoft SQL Server	<ul style="list-style-type: none">■ 2008■ 2005■ 2000 Desktop Edition (MSDE 2000)■ 2000 Enterprise Edition (64-bit)
MySQL Enterprise	5.0.x with the following storage engines: <ul style="list-style-type: none">■ InnoDB - Transactional■ MyISAM - Non-Transactional■ Memory (formerly HEAP) - Non-Transactional

Table 1-3. DataDirect XQuery Relational Database Support

Database	Supported Versions
Oracle	<ul style="list-style-type: none"> ■ 11g ■ 10g (R1 and R2) ■ 9i (R1 and R2)
PostgreSQL	<ul style="list-style-type: none"> ■ 8.2 ■ 8.1 <p>NOTE: Requires the PostgreSQL JDBC driver. See Chapter 5 Understanding Data Sources and Connections in the <i>DataDirect XQuery User's Guide and Reference</i> for information about obtaining and using the driver.</p>
Sybase Adaptive Server Enterprise	<ul style="list-style-type: none"> ■ 15.0 ■ 12.5.x

For current information, refer to the DataDirect XQuery matrix on the DataDirect Technologies Web site:

http://www.datadirect.com/support/product_info/databasesupport/index.ssp

2 Installing DataDirect XQuery®

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

What Is Installed?

The DataDirect XQuery installer installs the following components:

- DataDirect XQuery
- DataDirect XQuery online books are an optional installation component and, if installed, are placed in the /books/xquery subdirectory in your DataDirect XQuery installation directory.
- Javadoc for XQJ and DataDirect XQuery is placed in the /javadoc subdirectory in your DataDirect XQuery installation directory.
- DataDirect XQuery examples are placed in the /examples subdirectory in your DataDirect XQuery installation directory.
- DataDirect XQuery online help system is placed in the /help subdirectory in your DataDirect XQuery installation directory.
- DataDirect XQuery README and FIXES text files are placed in the installation directory.

See [“About the Product Documentation” on page 9](#) for details about the online books.

NOTE You can download the DataDirect XML Converters, and the documentation and examples associated with them, from:

<http://www.datadirect.com/products/data-integration/index.ssp>

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 CD” on page 24](#).
- Media downloaded from the DataDirect Web site, go to [“Installation Procedures” on page 26](#).

Mounting the CD

Follow the instructions in this section to mount your CD. Once the CD is mounted, go to [“Installation Procedures” on page 26](#) for installation instructions.

On Windows

- 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.

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 appropriate 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 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 XQuery using

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

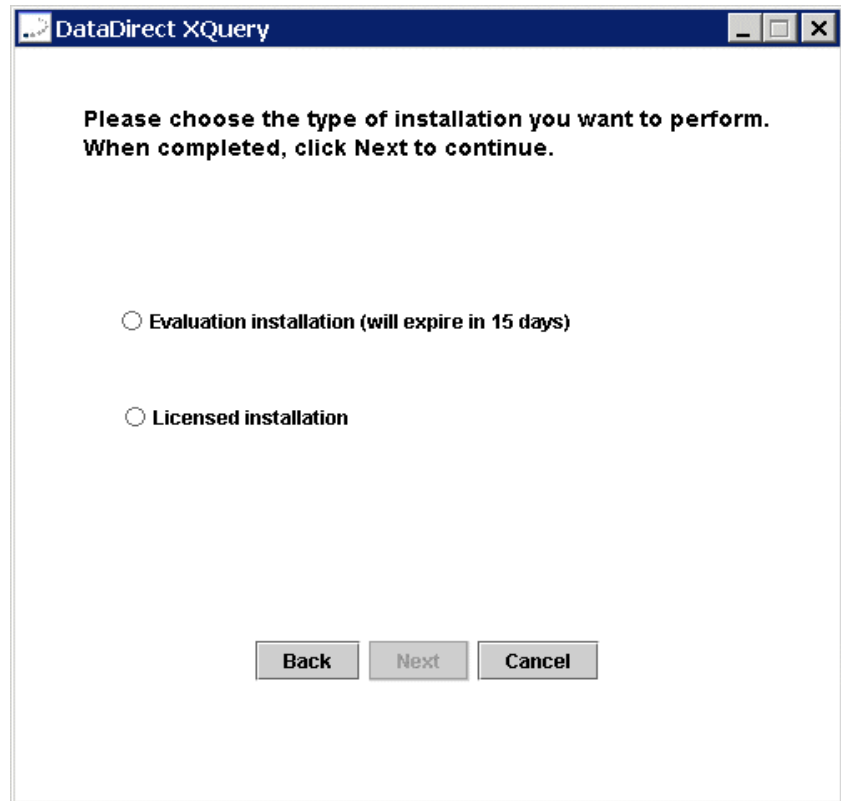
Regardless of which method you use, note the following before you begin:

- Make sure that your Java Virtual Machine is on your path. J2SE 1.4.x or later is required to use DataDirect XQuery.
- Choose an *installer* directory for the DataDirect XQuery installer. This can also be the *installation* directory for DataDirect XQuery, but does not need to be. You can choose another installation directory during the installation procedure.

GUI Installation

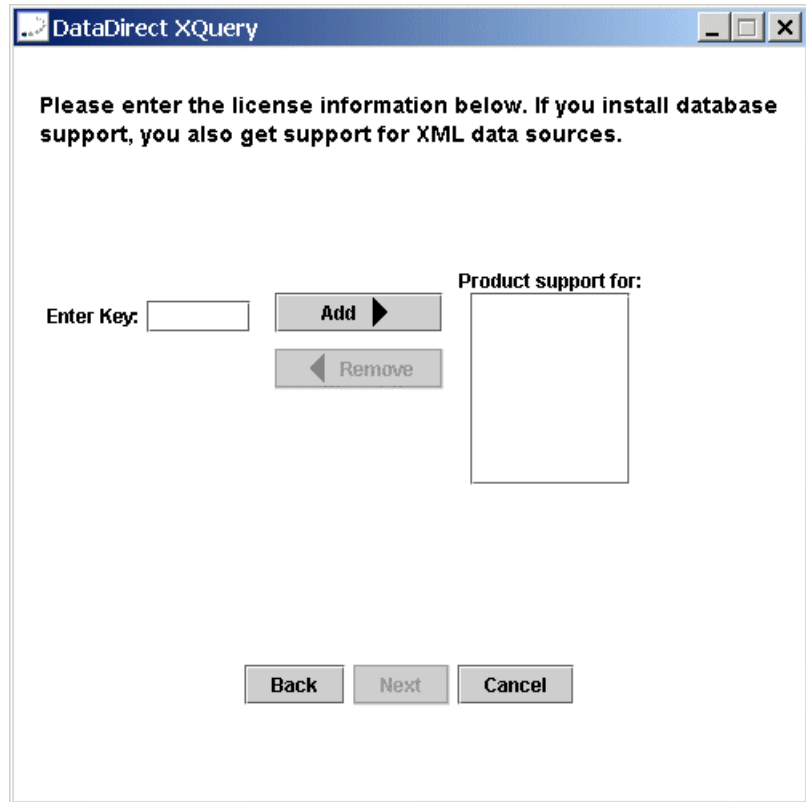
- 1 Locate the DataDirect XQuery jar file, `datadirectxquery.jar`, in the `/xquery` directory on the DataDirect Technologies CD, or locate the downloadable product on the DataDirect Web site(<http://www.datadirect.com>).
- 2 Copy or download the `datadirectxquery.jar` file to the installer directory you have chosen.
- 3 From the installer directory, execute `datadirectxquery.jar`.
- 4 Click **Next** to start the installation.
The License Agreement window appears.
- 5 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**.

A window appears asking you to choose the type of installation you want to perform.



- 6 Select one of the following options:
 - **Evaluation installation (will expire in 15 days).** Select this option to install an evaluation version of DataDirect XQuery. Click **Next** to continue with the installation. Skip to [Step 8](#).
 - **Licensed installation.** Select this option if you have purchased one or multiple licenses of DataDirect XQuery. Click **Next** and continue with the next step to enter your product licensing information.

A window appears asking you to enter your product keys.

The screenshot shows a window titled "DataDirect XQuery". Inside the window, there is a text prompt: "Please enter the license information below. If you install database support, you also get support for XML data sources." Below this prompt, on the left, is the label "Enter Key:" followed by a text input field. To the right of the input field are two buttons: "Add" with a right-pointing arrow and "Remove" with a left-pointing arrow. To the right of these buttons is a large, empty rectangular box labeled "Product support for:". At the bottom of the window are three buttons: "Back", "Next", and "Cancel".

- 7 Type the 8-character product key in the Enter Key field, and click the **Add** button. If you were issued multiple product keys, you can add them sequentially to the Product support for list box. A list of the data sources for which DataDirect XQuery is licensed appears in the list box and support for these data sources will be installed.

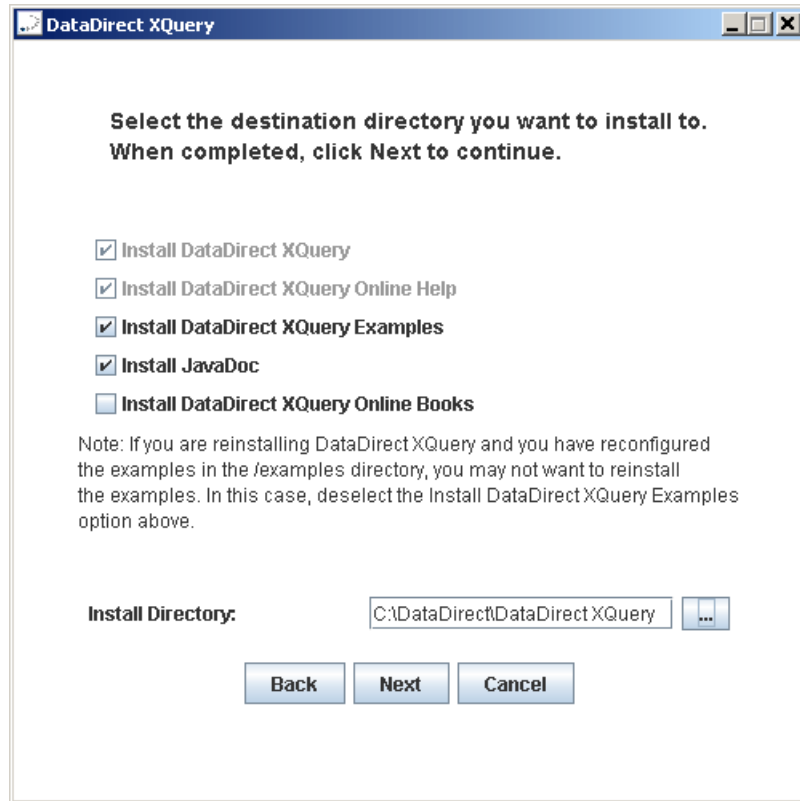
NOTE: When you install support for a relational data source, you also get support for XML data sources.

To delete support for a data source listed in the Product support for list box, select the data source to delete and click the **Remove** button. Support for the selected data source is

removed from the list box and is not installed when you continue with the installation.

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

A window appears asking you to select components to install.



The Install DataDirect XQuery and Install DataDirect XQuery Online Help options are grayed out because both are required.

By default, the installer installs the following components:

- **DataDirect XQuery Examples.** Files with the same name are replaced during installation. If you are reinstalling DataDirect XQuery and have reconfigured the examples, you might **not** want to reinstall the current examples. In

this case, clear the **Install DataDirect XQuery Examples** option.

- Javadoc for XQJ and DataDirect XQuery.

9 In this window, perform the following steps:

- a If you want to install local copies of the DataDirect XQuery documentation, select the **Install DataDirect XQuery Online Books** option. The books are installed in the books/xquery subdirectory of the installation directory.
- b In the Install Directory field, type the path (including the drive letter on Windows machines) of the DataDirect XQuery installation directory or click the Browse (...) button next to the field to select an installation directory.

The default value for the installation directory is the directory from which the installer is running. Verify that you have entered (or selected) the correct installation directory.

- c Click **Next** to continue.

A window appears asking you to confirm your installation options.

10 Click **Back** to revise your choices, or click **Install** to continue with the installation. When you click **Install**, DataDirect XQuery, the online help and, if selected, the examples, the Javadoc, and the online books are installed.

The final installer window appears.

11 Click **Finish** to exit the Installer. The Quick Start, a brief guide to what to do next after installing DataDirect XQuery, is launched automatically when the installer exits. If you do not want the installer to launch the Quick Start, clear the **View QuickStart** check box before clicking **Finish** to exit the installer.

Command-Line Installation

- 1 Locate the DataDirect XQuery jar file, `datadirectxquery.jar`, in the `/xquery` directory on the DataDirect Technologies CD, or locate the downloadable product on the DataDirect Web site(<http://www.datadirect.com>).
- 2 Copy or download the jar file to the installer directory you have chosen.
- 3 At a command prompt, enter the following command:

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

where:

- | | |
|----|---|
| -e | {yes no}. If yes, the DataDirect XQuery 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. |
| -b | {yes no}. If yes, the DataDirect XQuery library is installed. The books are installed in the <code>/books/xquery</code> subdirectory of the installation directory. |
| -j | {yes no}. If yes, Javadoc for XQJ and DataDirect XQuery is installed. The Javadoc is installed in the <code>/javadoc</code> 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 within 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 XQuery, enter `eval` as the key value. For example, the following value installs a 15-day evaluation copy of DataDirect XQuery:

```
-k eval
```

`-d install_dir`

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

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

```
-d "C:\Program Files\DataDirect\XQuery"
```

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

Example on Windows:

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

This DataDirect XQuery command-line example performs the following actions:

- Installs the DataDirect XQuery examples (-e yes).
- Installs the DataDirect XQuery Online Books (-b yes).
- Installs the Javadoc (-j yes).
- Installs DataDirect XQuery with support for multiple databases (-k xxxxkey1;xxxxkey2).
- Installs the components to the installation directory C:\Program Files\DataDirect\DataDirect XQuery (-d "C:\Program Files\DataDirect\DataDirect XQuery").
Note that because the directory path contains spaces, it is enclosed within double quotes.

Example on UNIX/Linux:

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

This DataDirect XQuery command-line example performs the following actions:

- Installs the DataDirect XQuery examples (-e yes).
- Installs the DataDirect XQuery Online Books (-b yes).
- Installs the Javadoc (-j yes).
- Installs DataDirect XQuery with support for only one database (-k xxxxkey1). See the previous Windows example for an example of how to specify multiple keys, but remember to enclose the entire key string within double quotes if you use a semicolon to separate the keys.
- Installs the components to the installation directory /home/user/DataDirect/DataDirect_XQuery (-d /home/user/DataDirect/DataDirect_XQuery). Because the directory path does not contain spaces, it is not enclosed within double quotes.

Getting Started with DataDirect XQuery®

To get started with DataDirect XQuery immediately after installation, refer to the *DataDirect XQuery Quick Start*:

http://www.datadirect.com/support/getting_started/quick_start/xquery/index.ssp

To take full advantage of the many DataDirect XQuery features, read the [DataDirect XQuery User's Guide and Reference](#).

Adding Database Support to an Installation

After installation, you may want to purchase and install additional database support for DataDirect XQuery. For example, you initially installed DataDirect XQuery with Oracle support, and now you want to install support for DB2, Microsoft SQL Server, or Sybase. To add database support to your current installation, see [“Installation Procedures” on page 26](#) and follow the procedure for installation.

When asked to enter your product license information, add the new product license key or keys provided to you by DataDirect Technologies. You do not need to re-enter product license keys for licensed database support already installed.

Upgrading to a Licensed Installation

- 1 Contact your DataDirect Sales representative to purchase a license.
- 2 Follow the procedure for installation on [“Installation Procedures” on page 26](#).
- 3 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.

Extending an Evaluation Installation

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

Uninstalling

To uninstall DataDirect XQuery, delete the entire installation directory.

For More Information

Refer to the README file that accompanies DataDirect XQuery for current information regarding this release.

Index

A

- adding database support 36
- authentication
 - Kerberos 15
 - NTLM 17

B

- before you install 15
- books
 - online 10

C

- CD mounting instructions 24
- code page support, J2SE 19
- command-line installation, DataDirect
 - XQuery 32
- contacting Technical Support 12
- conventions, typographical 8

D

- data sources
 - relational 20
 - XML 19
- data types, XML 20
- databases
 - adding to an installation 36
- DataDirect XML Converters 19

- DataDirect XQuery
 - about 7
 - extending evaluation 36
 - getting started 35
 - how to install 26
 - installing 23
 - Javadoc 23
 - system and product requirements 15
 - uninstalling 37

- DB2
 - Kerberos authentication 15
 - versions supported 20
- documentation
 - about 9
 - installing online books 23
- domain controller 18

E

- evaluation
 - extending DataDirect XQuery 36
 - upgrading DataDirect XQuery to a
 - licensed installation 36

G

- getting started with DataDirect XQuery 35
- GUI installation, DataDirect XQuery 27

H

help, online 10

I

Informix
 versions supported 20
installing
 DataDirect XQuery 26
 examples 23
 Javadoc, XQJ and DataDirect XQuery 23
 online books 23
 online help 23
 readme and fixes 23

J

J2SE
 code page support 19
 requirement 15
Javadoc, XQJ and DataDirect XQuery 23

K

Kerberos authentication, product
 requirements 15
Kerberos Key Distribution Center (KDC) 17
Kerberos server 17

L

licensing
 multiple keys 29

 upgrading DataDirect XQuery to a
 licensed installation 36
Linux, mounting instructions for CD 25

M

Microsoft SQL Server
 See SQL Server.
MIT Kerberos 17
mounting instructions for CD 24
multiple keys, product 29
MySQL Enterprise
 versions supported 20

N

NTLM authentication 17

O

Oracle
 Kerberos authentication 15
 NTLM authentication 17
 versions supported 21

P

PostgreSQL
 versions supported 21
PostgreSQL JDBC driver 21
product keys 29
product requirements
 DataDirect XQuery 15
 Kerberos authentication 15
 NTLM authentication 17

R

relational data sources 20
requirements, system and product 15

S

SQL Server
 Kerberos authentication 15
 NTLM authentication 17
 versions supported 20
SupportLink 12
Sybase
 Kerberos authentication 15
 versions supported 21
system requirements 15

T

Technical Support, contacting 12

U

uninstalling DataDirect XQuery 37
UNIX, mounting instructions for CD 25
upgrading to a licensed installation
 DataDirect XQuery 36
URI schemes 19

W

Windows Active Directory 17
Windows, mounting instructions for CD 24

X

XML
 data sources 19
 data type 20
 stored in character columns 20
 stored in relational database using an XML
 data type 20
XML Converters 19
XQJ Javadoc 23

