



IVI Technologies

Integrity Value Innovation

Stylus XQuery®

Installation Guide

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Third Party Acknowledgments: There are no products in the Stylus XML Converters release that include third party component covered by licenses that require documentation notices be provided.

1 Before You Install

Before you install Stylus 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 Stylus XQuery.

Stylus XQuery

- n For hard disk space requirements, refer to the Stylus XQuery README text file.
- n Make sure that the Java Virtual Machine is on your path. J2SE 1.8.x or later is required for using Stylus 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.

Stylus XQuery supports Kerberos authentication for the following databases:

- n DB2
- n Microsoft SQL Server
- n Sybase

Verify that your environment meets the requirements listed in [Table 1-1](#) before you configure Stylus 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"> n DB2 v8.1 or higher for Linux/UNIX/Windows <p>Microsoft SQL Server:</p> <ul style="list-style-type: none"> n Microsoft SQL Server 2005 n Microsoft SQL Server 2000 n Microsoft SQL Server 2000 Enterprise Edition (64-bit) Service Pack 2 or higher <p>Sybase:</p> <ul style="list-style-type: none"> n 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 and 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"> n Windows Server 2003 n Windows 2000 Server Service Pack 3 or higher <p>Sybase:</p> <p>Network authentication must be provided by one of the following methods:</p> <ul style="list-style-type: none"> n 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 n MIT Kerberos 1.4.2 or higher
Client	J2SE 1.8 or higher must be installed.

NTLM Authentication

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

Stylus XQuery supports NTLM authentication for the following databases:

- n Oracle
- n Microsoft SQL Server

Verify that your environment meets the requirements listed in [Table 1-2](#) before you configure Stylus 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"> n Oracle 10g (R1 and R2) n Oracle 9i (R1 and R2) <p>Microsoft SQL Server:</p> <ul style="list-style-type: none"> n Microsoft SQL Server 2005 n Microsoft SQL Server 2000 Service Pack 3 or higher n 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"> n Windows Server 2003 n 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"> n Windows Vista n Windows Server 2003 n Windows XP Service Pack 1 or higher n Windows 2000 Service Pack 4 or higher n Windows NT 4.0 <p>In addition, J2SE 1.8 or higher must be installed.</p>

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 Stylus XQuery to access both XML and relational data sources.

XML Data Sources

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

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

NOTE: Stylus 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.xmlconverters.com>

- n 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.

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

Refer to the Stylus XQuery User's Guide and Reference for details on accessing XML.

Relational Data Sources

Stylus XQuery supports the following relational databases. For the most current information, refer to the Stylus XQuery matrix online at:

<https://www.xquery.com/support>

- n DB2 V9.1 for Linux/UNIX/Windows
- n DB2 Universal Database (UDB) v8.1 and v8.2 for Linux/UNIX/Windows
- n DB2 UDB v8.1 for z/OS (formerly OS/390)
- n DB2 UDB V5R2, V5R3, and V5R4 for iSeries (formerly AS/400)
- n Oracle 10g (R1 and R2) and Oracle 9i (R1 and R2)
- n Microsoft SQL Server 2005, Microsoft SQL Server 2000, Microsoft SQL Server 2000 Desktop Edition (MSDE 2000), and Microsoft SQL Server 2000 Enterprise Edition (64-bit)
- n Sybase Adaptive Server Enterprise 15.0 and 12.5.x

Preface

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

What Is Stylus XQuery®?

The Stylus 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. Stylus XQuery supports the XQuery for Java™ (XQJ) API, 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. Stylus 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 Stylus XQuery, you can use Stylus XML Converters™. The XML Converters translate many non-XML formats into XML, including EDI messages, tab-delimited and comma-separated text files, dBASE files, RTF files, and many more. More details about the XML Converters are available at:

<http://www.xmlconverters.com>

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 Stylus 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 IVI Technologies. Because it is the nature of Web content to change frequently, Stylus XQuery 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.
monospace	Indicates syntax examples, values that you specify, or results that you receive.
<i>monospaced italics</i>	Indicates names that are placeholders for values that you specify. For example, <i>filename</i> .

Convention	Explanation
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 Stylus XQuery library consists of the following books:

- n Stylus XQuery *Installation Guide* describes the requirements and procedures for installing Stylus XQuery.
- n Stylus XQuery *User's Guide and Reference* provides information about using Stylus XQuery to access both XML and relational sources.

Both of these books are available in HTML and PDF format. By default, the HTML version is installed during a normal installation of Stylus 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 Stylus XQuery installation directory.

HTML Version

Both of the Stylus 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. To use the help, you must have one of the following browsers installed:

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

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

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 Acrobat Reader. The PDF

documentation is available on the product CD, as a product installation component, and also on the IVI Technologies Web site:

<https://www.xquery.com/documentation>

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.

- n **To copy all product books**, copy the entire \books directory to your local or network drive.
- n **To copy a specific set of books**, copy that book'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

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

<https://www.xquery.com/support>

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2 Stylus XQuery Installation Guide

Installing Stylus XQuery®

Before you start installation, see [Chapter 1 “Before You Install” on page 13](#) and verify that your system meets the specified requirements.

What Is Installed?

The Stylus XQuery installer installs the following components:

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

See [“About the Product Documentation” on page 7](#) for details about the online books.

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

<http://www.xmlconverters.com>

Mounting the Stylus Technologies CD

Follow the instructions in this section to mount your IVI Technologies CD. Continue with “[Installation Procedure](#)” on page 22 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 available. 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.

Stylus XQuery 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:

n 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
```

n 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`.

n For Linux, enter:

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

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

Installation Procedure

NOTE: Make sure that your Java Virtual Machine is on your path. J2SE 1.4.x or later is required to use Stylus XQuery.

Before beginning, choose an *installer* directory for the Stylus XQuery installer. This can also be the *installation* directory for Stylus XQuery, but does not need to be. You can choose another installation directory during the installation procedure.

To install Stylus XQuery:

- 1 Locate the Stylus XQuery jar file, `stylusxquery.jar`, in the `/xquery` directory on the IVI Technologies CD. Copy 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 `stylusxquery.jar` file:
 - n **On Windows:** Use the WinZip utility to open the `stylusxquery.jar` file. Extract the contents of the jar file to the installer directory.
 - n **On Windows or other operating systems:** At a command prompt, change to the installer directory and `unjar` the contents of the `stylusxquery.jar` file by entering the following command:

```
jar -xvf stylusxquery.jar
```

Either method extracts the necessary files into the installer directory.

- 3 Perform the installation:
 - n If you prefer to use a Graphical User Interface (GUI), go to [“GUI Installation”](#) for instructions.
 - n If you prefer to use a command line, go to [“Command-Line Installation” on page 28](#) for instructions.

GUI Installation

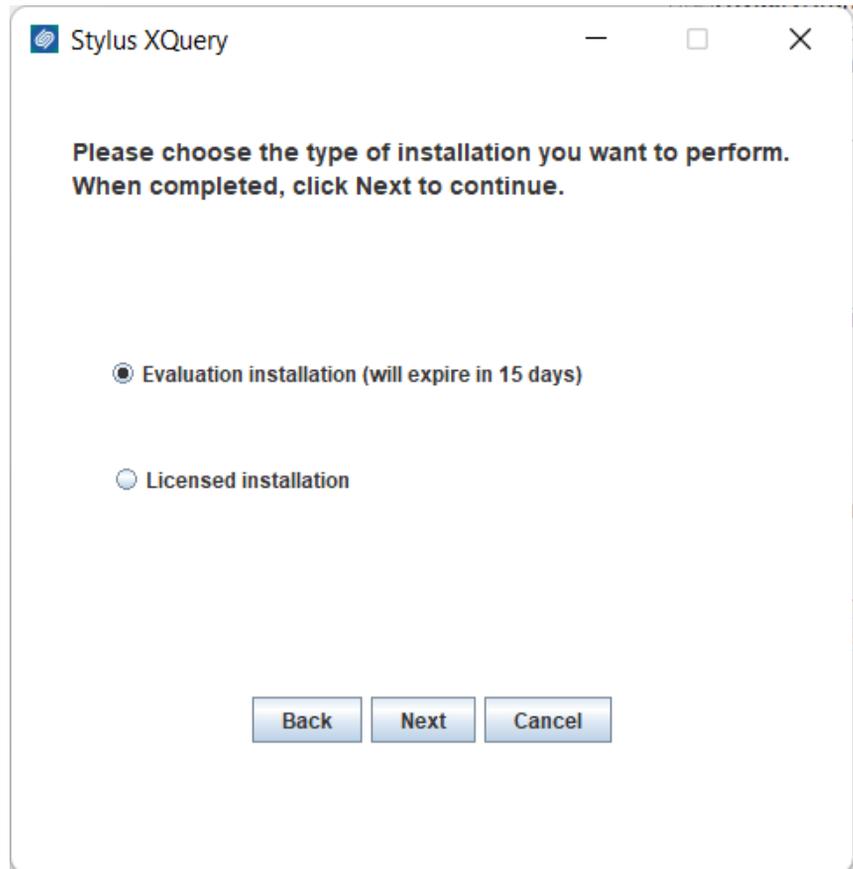
- 1 From the installer directory, enter the following command at a command prompt:

```
java -jar XQueryInstaller.jar
```

The Stylus XQuery Installer window appears. Click **Next** to start the installation.

- 2 The License Agreement window appears. 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**.

- 3 A window appears allowing you to choose the type of installation you want to perform.

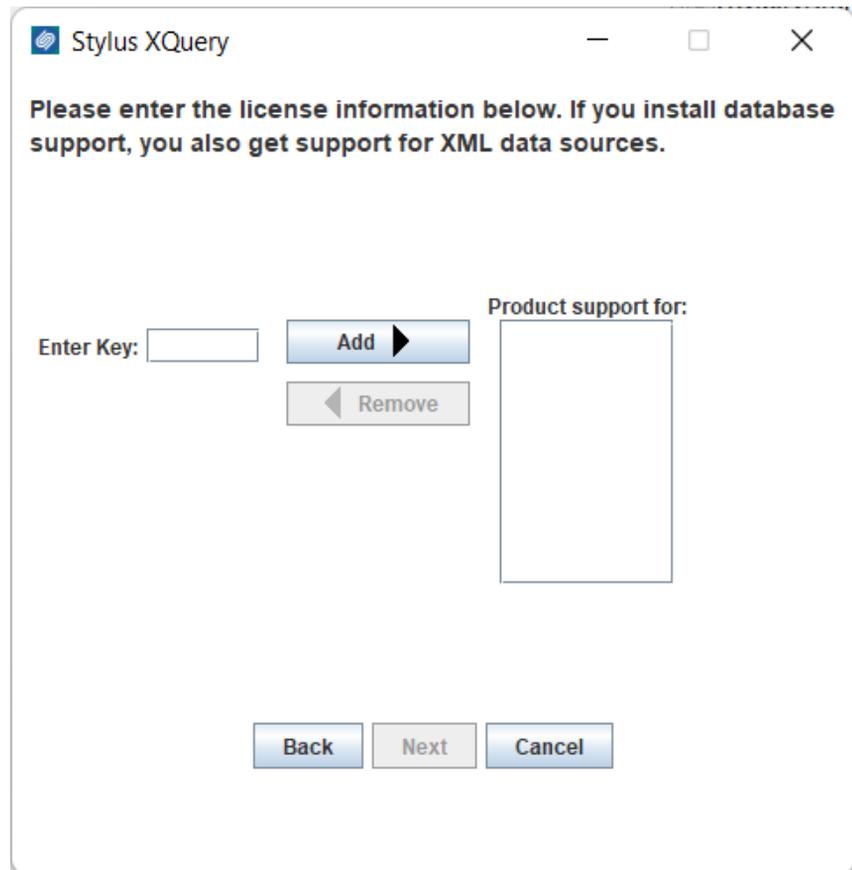


Select one of the following options:

- n **Evaluation installation (will expire in 15 days).** Select this option to install an evaluation version of Stylus XQuery. Click **Next** to continue with the installation. Skip to [Step 5](#).
- n **Licensed installation.** Select this option if you have purchased one or multiple licenses of Stylus XQuery. Click

Next and continue with the next step to enter your product licensing information.

- 4 A window appears allowing you to enter your product keys.



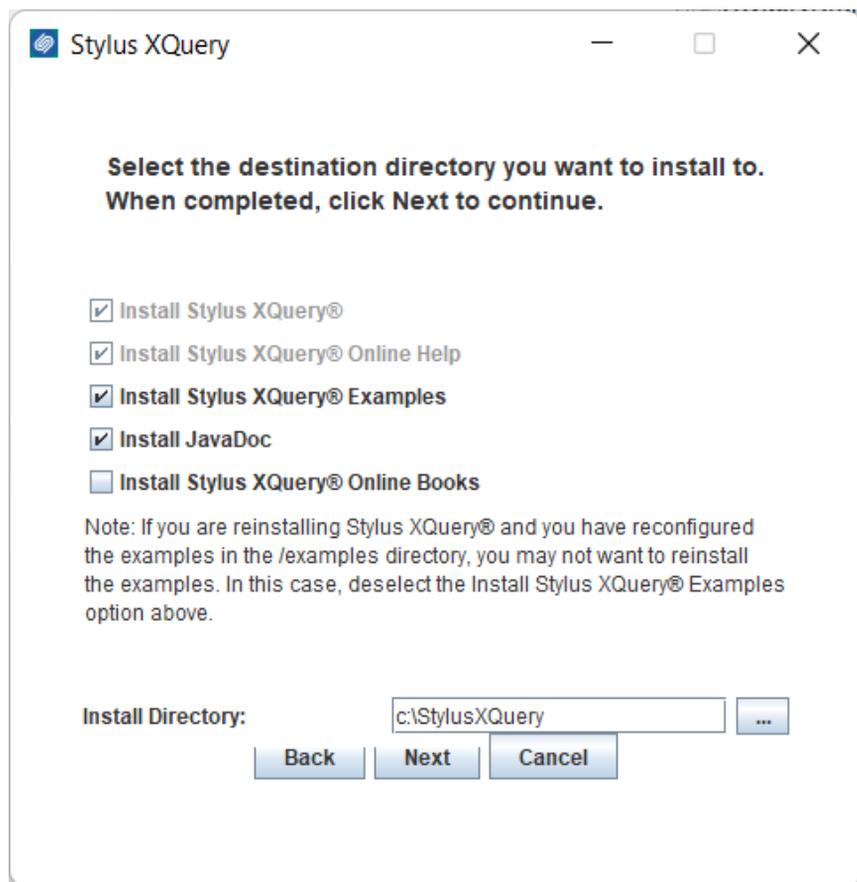
Type the 8-character product key in the Enter Key field, and click the **Add** button. If you were issued multiple product keys, you can add them sequentially to the Product support for list box. A list of the data sources for which Stylus XQuery is licensed appears in the list box and support for these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

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

- 5 A window appears allowing you to select components to install.



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

By default, the installer installs the following components:

- n Stylus XQuery 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 Stylus XQuery Examples** option.
- n Javadoc for XQJ and Stylus XQuery.

In this window, perform the following steps:

- a Select the **Install Stylus XQuery Online Books** option to install the Stylus XQuery library. 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 Stylus 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.
- 6 A window appears allowing you to confirm your installation options. Click **Back** to revise your choices, or click **Install** to continue with the installation. When you click **Install**, Stylus XQuery, the online help and, if selected, the examples, the Javadoc, and the online books are installed.
 - 7 The final installer window appears. Click **Finish** to exit the Installer. The Quick Start, a brief guide to what to do next after installing Stylus 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 At a command prompt, enter the following command:

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

where:

- e {yes | no}. If yes, the Stylus 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 Stylus XQuery library is installed. The books are installed in the /books/xquery subdirectory of the installation directory.
- j {yes | no}. If yes, Javadoc for XQJ and Stylus XQuery is installed. The Javadoc is installed in the /javadoc subdirectory of the installation directory.

`-k key[{:|,}key]...`

Specifies your product licensing information, where *key* is the product key you received from IVI 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 Stylus XQuery, enter *eval* as the key value. For example, the following value installs a 15-day evaluation copy of Stylus XQuery:

```
-k eval
```

`-d install_dir`

Specifies the full path, including the drive letter on Windows machines, to the Stylus 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\IVI Technologies\  
Stylus XQuery"
```

- 2 If Stylus XQuery is successfully installed, a message appears confirming the installation.

Example on Windows:

```
java -jar XQueryInstaller.jar -e yes -b yes -j yes -k xxxxkey1;xxxxkey2 -d "C:\Program Files\IVI Technologies\Stylus XQuery"
```

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

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

Example on UNIX/Linux:

```
java -jar XQueryInstaller.jar -e yes -b yes -j yes -k xxxxkey1 -d /home/user/IVI Technologies/Stylus_XQuery
```

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

- n Installs the Stylus XQuery examples (-e yes).
- n Installs the Stylus XQuery Online Books (-b yes).
- n Installs the Javadoc (-j yes).
- n Installs Stylus 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.
- n Installs the components to the installation directory /home/user/IVI Technologies/Stylus_XQuery (-d /home/user/IVI

Technologies/Stylus_XQuery). Because the directory path does not contain spaces, it is not enclosed within double quotes.

Getting Started with Stylus XQuery®

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

<https://www.xquery.com/documentations>

To take full advantage of the many Stylus XQuery features, we recommend that you read the Stylus XQuery User's Guide

Adding Database Support to an Installation

After installation, you may want to purchase and install additional database support for Stylus XQuery, for example, you initially installed Stylus 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 Procedure](#)” on page 22 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 IVI Technologies. You do not need to re-enter product license keys for licensed database support already installed.

Upgrading an Evaluation Installation to a

Licensed Installation

- 1 Contact [Stylus XQuery](#) to purchase a license.
- 2 Follow the procedure for installation on [“Installation Procedure” on page 22](#).
- 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 IVI Technologies.

Extending an Evaluation Installation

To extend a Stylus XQuery evaluation installation, contact IVI Technologies.

Uninstalling

To uninstall Stylus XQuery, delete the entire installation directory.

For More Information

We recommend that you read the README text file that accompanies Stylus XQuery for current information regarding this release.