

# XML Extender Administration Wizard Release Notes

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## [Setting up the XML Extender administration wizard](#)

The administration wizard helps you manage your database and tables for use with XML files. The wizard helps you complete the following tasks:

1. Enable or disable a database for XML Extender.
2. Enable table columns for XML Extender.
3. Create collections of table columns that are mapped to XML document trees.
4. Create and edit document access definition files that map the XML tree structure to relational tables to generate or shred XML documents. An alternative DAD editor is provided in the XML and Web Services Development Environment (WSDE) tool set. See [Web Services Development Environment: alternate document access definition \(DAD\) editing tool](#).
5. Import DTDs into the database.

The following instructions will guide you through setting up your system to use the wizard.

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### [Product assumptions](#)

This document assumes that you have downloaded the wizard package because any of the following conditions apply to you:

- You are running in a UNIX or Windows client/server environment, have installed DB2 XML Extender, and you are upgrading the wizard delivered with DB2 UDB XML Extender, Version 7 or later.
- You are running in an OS/390 environment, and want to administer DB2 XML Extender using the administration wizard from a UNIX or Windows client. You are upgrading the version of the wizard delivered with the DB2 UDB XML Extender for OS/390 or z/OS, Version 7 or later.
- You are running in OS/400, OS/390, UNIX or Windows environment, want to administer DB2 XML Extender, and are installing the administration wizard on to a UNIX or Windows client by Web download.

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## Setting up the administration wizard on all operating systems except OS/400

To set up and start the XML Extender administration wizard:

- Ensure that you have a swingall.jar file. This file is available from the following sources:
  - JDK 1.2 or later
  - DB2 Connect Personal Edition Version 7 or later

- Ensure that you have Java or a supported JRE or JDK installed.

The JDK and JRE are provided with DB2 UDB Version 7.1, on certain operating systems. When available, the JRE is automatically installed, and the JDK is installed when you choose to install the DB2 UDB Application Development selection. You do not need to use the JDK or JRE that is provided with DB2 UDB. See the DB2 Universal Database: Java Enablement with DB2 Universal Database Web site at <http://www.ibm.com/software/data/db2/java>.

If you are using an operating system in which Java support is not provided by DB2 UDB, you must install the JDK or JRE yourself. Use the link above to the DB2 Java Web site to find download packages for the various levels of Java that have been tested with DB2 UDB. You can also choose to install another version of the JDK or JRE even if you have the DB2-provided versions installed.

1. Set your PATH and CLASSPATH environment variables. In this step, the following terms are used to indicate product installation directories. These are documentation conventions, not actual variables.

### ***dx\_install\_directory***

The directory under which the XML Extender is installed. For example, on Windows operating systems, the default is: `c:\dxx`

### ***db2\_install\_directory***

The directory under which DB2 UDB is installed. For example, on Windows operating systems, the default is: `c:\program files` for DB2 UDB Version 7 and `c:\program files\IBM` for Version 8.

1. Set the PATH variable.

The PATH statement must contain the directories for the Java™ binary files and optionally the XML Extender administration directory. See [Table 1](#) and [Table 2](#) to learn how to set this up.

2. Set the CLASSPATH variable. The CLASSPATH points to the administration wizard jar files, Java class libraries, the Swingall jar file, and the DB2 JDBC™ driver file. See

[Table 1](#) and [Table 2](#) to learn how to set up.

2. Test the installation by invoking the DB2 XML Extender administration wizard as follows:
  - o To start the administration wizard for Windows Version 7, click **Start -> Programs -> DB2 XML Extender -> XML Extender Administration Wizard**.
  - o To start the administration wizard for Version 8, enter the following command from the command line:

```
dxxadmin
```

If the XML Extender administration wizard is set up correctly, you will see the Logon window:

The screenshot shows a dialog box titled "XML Extender Administration LaunchPad" with a sub-title "XML Extender Administration LaunchPad: Logon". The main text reads: "Welcome to the XML Extender Administration Wizard. First, connect to the UDB data source that you want to work with by completing the following fields, and clicking Finish." Below this are four input fields: "Address" (containing the placeholder "jdbc:db2://[host]:[port]/[database]"), "User ID", "Password", and "JDBC Driver" (containing "COM.ibm.db2.jdbc.app.DB2Driver"). At the bottom right are three buttons: "Finish", "Cancel", and "Help".

3. On the Logon window of the XML Extender administration Launchpad, specify the information for the server that is associated with the XML data that you want to work with. The following example accesses the OS/390 remote database from the workstation:

**Address**

This field contains the fully qualified JDBC URL to the data source that you are connecting to. For example:

```
Jdbc : db2 : ISC710P1
```

where ISC710P1 is the alias database name that is cataloged on the local system.

**Tip:** If you want to specify a database name instead of a JDBC URL, you must first run the following commands to allow the local DB2 UDB system to forward the SQL requests to the remote server:

```
-- Remove prior catalog entries
```

```
db2 uncatalog node ISC710P1
```

```
db2 uncatalog database db710p1
```

```
db2 uncatalog dcs database ISC710P1 -- Add TCP/IP node entry to the node directory to access
the remote node db2 catalog tcpip node isc710p1 remote isc710p1.stl.ibm.com server 446 --
Store remote database location information in the local database directory db2 catalog database
isc710p1 as db710p1 at node isc710p1 authentication dcs -- Store remote database information
in the Database Connection Services (DCS) directory db2 catalog dcs database isc710p1 as
stlec1
```

DB710P1 is the database name that is successfully cataloged into the client system. Then in the Logon window, you can specify DB710P1 as the database name that you want to access.

### User ID and Password

In these fields, specify a user ID and password that are associated with a valid TSO user ID and password.

### JDBC driver

In this field, specify the following value for the JDBC Driver name:

```
COM.ibm.db2.jdbc.app.DB2Driver
```

The XML Extender administration launchpad is started when you complete the logon window. You can use this launchpad to do any of the following tasks:

- Enable or disable a server for XML Extender
- Add, enable, or disable an XML column
- Enable or disable an XML collection
- Create and edit DAD files

[Table 1](#) describes the requirements for the PATH statement:

**Table 1. PATH values**

Software	PATH value
Java binary files	<p>Depends on the Java package that you use:</p> <ul style="list-style-type: none"> <li>● DB2 JDK: <i>db2_install_directory/sqllib/java/jdk/bin</i></li> <li>● DB2 JRE: <i>db2_install_directory/sqllib/java/jre/bin</i></li> <li>● User-installed JDK: <i>install_directory/bin</i></li> <li>● User-installed JRE: <i>install_directory/bin</i></li> </ul>
XML Extender administration directory	<p>Version 7:</p> <ul style="list-style-type: none"> <li>● For all operating systems except Linux, the directory is: <i>dxx_install_directory/dxxadmin/</i></li> </ul>

	<ul style="list-style-type: none"> <li>• For Linux, the directory is: <i>dxx_install_directory/adm_g/</i></li> </ul> <p>Version 8:</p> <ul style="list-style-type: none"> <li>• <i>db2_install_directory/sqllib/bin</i></li> </ul>
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[Table 2](#) describes the directories and requirements for the CLASSPATH.

**Table 2. CLASSPATH values**

Software	CLASSPATH value
XML Extender jar files (V7 only): <ul style="list-style-type: none"> <li>• dxxadmin.jar</li> <li>• xml4j.jar</li> </ul>	<ul style="list-style-type: none"> <li>• For all operating systems except Linux: <i>dxx_install_directory/dxxadmin/</i></li> <li>• For Linux: <i>dxx_install_directory/adm_g</i></li> </ul>
XML Extender jar files (V8 only): <ul style="list-style-type: none"> <li>• dxxadmin.jar</li> <li>• xerces.jar</li> <li>• xml_apis.jar</li> </ul>	<ul style="list-style-type: none"> <li>• <i>db2_install_directory/sqllib/tools</i></li> </ul>
Java class libraries	Depends on whether you are running the <b>java</b> or <b>jre</b> command: <ul style="list-style-type: none"> <li>• <b>java command:</b> Point to the <i>classes.zip</i> file. For example:  <i>db2_install_directory/SQLLIB/java/jdk/lib/classes.zip</i></li> <li>• <b>jre command:</b> Point to the <i>rt.jar</i> file. For example:  <i>db2_install_directory/SQLLIB/java/jre/lib/rt.jar</i></li> </ul>
Swingall.jar file	<ul style="list-style-type: none"> <li>• For V7 using the DB2-provided swingall:  <i>db2_install_directory/SQLLIB/java/swingall.jar</i></li> <li>• For V8 using the DB2-provided swingall:  <i>db2_install_directory/SQLLIB/doc/prodcdsen_US/swingall.jar</i></li> </ul>
JDBC: db2java.zip	<ul style="list-style-type: none"> <li>• For DB2 Connect Personal Edition V7 or later:  <i>db2_install_directory/SQLLIB/java/db2java.zip</i></li> </ul>

See the [DB2 UDB XML Extender Administration and Programming](#) to learn how to start the wizard and connect to the database. OS/400 users, see [Setting up the wizard on OS/400](#) to learn how to configure and start the wizard when connecting to OS/400 systems.

## [Setting up the wizard on OS/400](#)

The set up for the administration wizard has some minor differences from the other operating systems.

Before you run the wizard, you must configure the CLASSPATH statement on your workstation system. [Setting up the administration wizard on all operating systems except OS/400](#) describes the general steps. The exception to this process for OS/400 is the JDBC driver path, which is not provided with DB2 UDB for iSeries.

To set up, download and install the JDBC driver, and add the file name to the CLASSPATH. Additionally, to connect to an OS/400 database system, you must provide connectivity information in a slightly different format from OS/390, UNIX, or Windows. The follow sections describe how to install and configure the JDBC driver, and how to enter the initial settings for the wizard.

## **[Installing and configuring the OS/400 JDBC driver for DB2 XML Extender](#)**

The JDBC driver for AS/400 is delivered in the AS/400 Toolbox for Java class files. To use it, you must copy the toolbox on your workstation.

### **Copying the AS/400 Toolbox for Java class files on your workstation:**

You can get server updates on your workstation by using the AS400ToolboxInstaller class or other means, such as ftp. To use the AS400TolboxInstaller class, complete the following steps:

1. Read the topic [Client installation and update classes](#) in the iSeries Information Center. This topic documents the class.
2. Find the file named jt400.jar on your AS/400 system. The default path is /QIBM/ProdData/HTTP/Public/jt400/lib.
3. Update the CLASSPATH environment variable of your workstation by adding the location where you copied jt400.jar.

To use an alternative method, complete the following steps:

1. Find the file named jt400.jar on your AS/400 system. The default path is /QIBM/ProdData/HTTP/Public/jt400/lib.
2. Connect the workstation to your system by ftp, map a network drive with Client Access/400, or another method that you might have.
3. Copy jt400.jar from the AS/400 to your workstation. If you use ftp to transfer the file, transfer the file in binary mode.
4. Update the CLASSPATH environment variable of your workstation by adding the location where you copied jt400.jar.

## **[Starting the administration wizard](#)**

On Windows, you can start the wizard by creating a shortcut and clicking on the icon. On Windows or UNIX, you can also modify the dxadmin400.cmd file and run the cmd file to start the wizard. In both cases, you enter connectivity values. The following sections describe the start up values required for using the wizard.

### **Connect to a RDB database**

When you start the XML Extender administration wizard, the Logon window opens, and requests information required to connect to a DB2 database.

To connect to the database, enter the following values on the first screen:

1. In the **Address** field, enter the fully-qualified JDBC URL to the data source to which you are connecting. The address has the following syntax:

```
jdbc:as400://host_name/database_name
```

Where *database\_name* is the database to which you are connecting and storing XML documents.

For example:

```
jdbc:as400://host1.mycompany.com/mydb
```

2. In the **User ID** and **Password** fields, enter or verify the DB2 user ID and password for the database to which you are connecting.
3. In the **JDBC Driver** field, verify the JDBC driver name for the specified address using the following value:

```
com.ibm.as400.access.AS400JDBCdriver
```

4. Click **Finish** to connect to the wizard and advance to the Launchpad window. For more information about the XML Extender administration wizard, see the [DB2 Information Center](#).

### Updating the dxxadmin400.cmd file

Customize the dxxadmin400.cmd file to save your startup values and start the wizard. To customize the file, locate the file in the directory with the wizard files and open it in a text editor. Replace the existing text with the following value:

```
java -classpath "dxxadmin.jar;xml4j.jar;jt400.jar" com.ibm.dxx.admin.Admin url=jdbc:  
as400://host_name/database_name driver=com.ibm.as400.access.AS400JDBCdriver
```

When you start the wizard, these values are entered in the Logon window, and you can connect to the database.

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## [Web Services Development Environment: alternate document access definition \(DAD\) editing tool](#)

[WebSphere Studio](#) provides a tool that can create document access definitions (DAD) for XML Extender. For more information, see [Exploring the RDB to XML Mapping Editor](#).

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## [What's new in XML Extender administration wizard that is dated 18 August 2004?](#)

- The drop-down list of table names now shows schema-qualified table names.
  - The drop-down list of table names no longer shows tables that are in the db2xml schema.
  - The drop-down list of table names no longer includes any view names.
  - The Work with XML Collections function reflects errors. For example, if the passed DAD file for XML collection enablement is invalid, Administration Wizard issues a corresponding message.
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