



Informatica® PowerExchange for JD  
Edwards World

10.1.1

# User Guide for PowerCenter

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# Preface

The *Informatica PowerExchange® for JD Edwards World for PowerCenter® User Guide* provides information about extracting data from a JD Edwards World source. The *User Guide* is written for database administrators and developers who are responsible for extracting data from JD Edwards World. This book assumes you have knowledge of JD Edwards World and PowerCenter.

## Informatica Resources

### Informatica Network

Informatica Network hosts Informatica Global Customer Support, the Informatica Knowledge Base, and other product resources. To access Informatica Network, visit <https://network.informatica.com>.

As a member, you can:

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- Search the Knowledge Base for product resources, including documentation, FAQs, and best practices.
- View product availability information.
- Review your support cases.
- Find your local Informatica User Group Network and collaborate with your peers.

### Informatica Knowledge Base

Use the Informatica Knowledge Base to search Informatica Network for product resources such as documentation, how-to articles, best practices, and PAMs.

To access the Knowledge Base, visit <https://kb.informatica.com>. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at [KB\\_Feedback@informatica.com](mailto:KB_Feedback@informatica.com).

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## Informatica Product Availability Matrixes

Product Availability Matrixes (PAMs) indicate the versions of operating systems, databases, and other types of data sources and targets that a product release supports. If you are an Informatica Network member, you can access PAMs at

<https://network.informatica.com/community/informatica-network/product-availability-matrices>.

## Informatica Velocity

Informatica Velocity is a collection of tips and best practices developed by Informatica Professional Services. Developed from the real-world experience of hundreds of data management projects, Informatica Velocity represents the collective knowledge of our consultants who have worked with organizations from around the world to plan, develop, deploy, and maintain successful data management solutions.

If you are an Informatica Network member, you can access Informatica Velocity resources at <http://velocity.informatica.com>.

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To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:

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If you are an Informatica Network member, you can use Online Support at <http://network.informatica.com>.

## CHAPTER 1

# Understanding PowerExchange for JD Edwards World

This chapter includes the following topics:

- [Understanding PowerExchange for JD Edwards World Overview, 8](#)
- [Understanding JD Edwards World, 8](#)
- [PowerCenter Integration with JD Edwards World, 9](#)

## Understanding PowerExchange for JD Edwards World Overview

PowerExchange for JD Edwards World integrates with Informatica PowerExchange to extract data from JD Edwards World sources. The PowerCenter Integration Service uses Informatica PowerExchange APIs to extract data from JD Edwards World sources.

## Understanding JD Edwards World

JD Edwards World is an Enterprise Resource Planning (ERP) application that you use to configure systems and applications according to your business needs. The ERP application runs on AS/400. The underlying database of JD Edwards World is IBM DB2.

JD Edwards World includes application suites that support manufacturing, financial, distribution and logistics, and human resource operations for organizations. For complex business situations, you can use multiple application suites.

Each JD Edwards World application suite consists of different systems. For example, the Financial Suite contains systems such as Enhanced Accounts Receivable, Accounts Payable, General Accounting, and Fixed Assets.

JD Edwards World also contains environments such as Production and Pristine. You can connect to any environment to access the application suites.



## JD Edwards World Tables

JD Edwards World maintains ERP data in tables that are created in an underlying database. Along with the business data, the tables store the data required to run JD Edwards World applications. For example, the tables store user information and data about the relationship between tables and the application. The database also contains the metadata that describes how the application data is stored and organized.

The tables used in JD Edwards World are similar in structure to those defined in a relational database. However, JD Edwards World maintains different tables to store metadata about the columns in tables, such as precision and scale.

Tables are categorized by system codes. Each database table in JD Edwards World is associated with a system code that defines table relationship with the available applications.

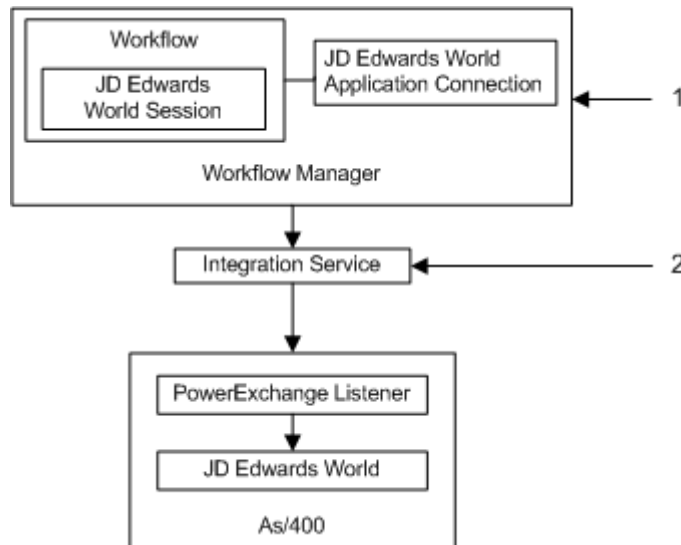
## PowerCenter Integration with JD Edwards World

You can import JD Edwards World metadata into PowerCenter as source definitions. The Designer connects to the PowerExchange Listener on AS/400 to import source metadata from JD Edwards World.

To connect to JD Edwards World, you need to specify a list of library names belonging to an environment in the PowerCenter Client. After the connection is established with the libraries in the JD Edwards World environment, the PowerExchange APIs extract metadata from the DB2 database. You can use the imported metadata in mappings to run sessions.

The PowerCenter Integration Service connects to JD Edwards World to read data from sources. When the PowerCenter Integration Service reads JD Edwards World data, it connects to JD Edwards World through PowerExchange. The PowerExchange Listener connects to DB2.

The following figure shows how the PowerCenter Integration Service integrates with JD Edwards World:



1. The PowerCenter Integration Service reads data based on workflow and application connection configuration.
2. The PowerCenter Integration Service connects to JD Edwards World through PowerExchange APIs to read data from DB2.

You can connect to any environment in the JD Edwards World system by specifying the libraries belonging to that environment in the JD Edwards World application connection. The PowerCenter Integration Service reads data by connecting to the specified libraries in the JD Edwards World environment.

## Code Page

If you set `DataMovementMode` to `Unicode` for the PowerCenter Integration Service, PowerExchange for JD Edwards World uses UTF-8 to extract data from a JD Edwards source. The UTF-8 data is converted into UCS-2 format before sending it to the output buffer.

## CHAPTER 2

# Installation and Configuration

This chapter includes the following topics:

- [Installation and Configuration Overview, 11](#)
- [Installing PowerExchange for JD Edwards World, 12](#)
- [Registering the Plug-in, 13](#)
- [Installing and Configuring PowerExchange, 15](#)

## Installation and Configuration Overview

This chapter provides information about upgrading, installing, and uninstalling PowerExchange for JD Edwards World.

### Prerequisites

Before you install or upgrade PowerExchange for JD Edwards World, complete the following tasks:

- Install or upgrade PowerCenter. For more information about the PowerCenter versions that PowerExchange for JD Edwards World is compatible with, see the PowerExchange for JD Edwards World Release Notes.
- Verify that you have read and write permissions on the following directories on each machine that runs the PowerCenter Integration Service or PowerCenter Repository Service:

```
<PowerCenter Installation Directory>\server\bin  
<PowerCenter Installation Directory>\server\bin\Plugin
```

The installer must be able to add and overwrite files in these directories.

- Verify that you have read and write permissions on the following directories of each PowerCenter Client machine:

```
<PowerCenter Installation Directory>\clients\PowerCenterClient\client\bin  
<PowerCenter Installation Directory>\clients\PowerCenterClient\client\bin\Help  
<PowerCenter Installation Directory>\clients\PowerCenterClient\client\bin\Help  
\<language>
```

The installer must be able to add and overwrite files in these directories.

For more information about product requirements and supported platforms, see the Product Availability Matrix on Informatica Network:

<https://network.informatica.com/community/informatica-network/product-availability-matrices/overview>

## Installing and Configuring PowerExchange for JD Edwards World

To install and configure PowerExchange for JD Edwards World, complete the following steps:

1. Install PowerExchange for JD Edwards World.
2. Register the plug-in.
3. Install the compatible version of Informatica PowerExchange and configure the dbmover.cfg file for the PowerExchange Listener.

After you install and configure PowerExchange for JD Edwards World, you can create connections to access JD Edwards World. Create connection objects in the Workflow Manager so the PowerCenter Integration Service can connect to JD Edwards World.

## Installing PowerExchange for JD Edwards World

When you install PowerExchange for JD Edwards World, you install the following components that allow PowerCenter to access JD Edwards World:

- Client component. Allows you to import definitions, create mappings, and create connection objects using the PowerCenter Client.
- Server component. Allows the PowerCenter Repository Service to store and access the JD Edwards World metadata in the repository the PowerCenter Integration Service to run JD Edwards World sessions.

Install these components on the machines that you want to access JD Edwards World.

### Installing the Client Component

Install the Client component on each PowerCenter Client machine where you want to create or access JD Edwards World metadata.

1. Run install.bat from the installation package.
2. Click **Next**.
3. Select the Informatica installation directory.

By default, the client is installed in the following location:

```
C:\Informatica\<version folder>
```

4. Click **Next**.
5. Click **Install** to begin the installation.
6. Click **Done** when the installation is complete.

The client component is installed.

### Installing the Server Component

The PowerExchange for JD Edwards World server component installs the PowerCenter Integration Service and PowerCenter Repository Service components.

If the PowerCenter Integration Service or PowerCenter Repository Service is configured to run on primary and backup nodes, install the PowerExchange for JD Edwards World server component on each node configured to run the PowerCenter Integration Service or PowerCenter Repository Service.

If the PowerCenter Integration Service is configured to run on a grid, install the PowerExchange for JD Edwards World server component on each node configured to run on the grid. If you cannot install the PowerExchange for JD Edwards World server component on each node in the grid, create a resource in the domain and assign it to each node where you installed the PowerExchange for JD Edwards World server component. When you create a session, configure the session to use the resource.

For example, create a custom resource called JD Edwards World. When you create a session, you can require the session to use resource JD Edwards World. The Load Balancer will only dispatch the session to nodes that has the resource.

## Installing the Server Component on Windows

Install the PowerExchange for JD Edwards World server component on Windows when the PowerCenter Integration Service or PowerCenter Repository Service runs on Windows.

1. Run `install.bat` from the installation package.
2. Click **Next**.
3. Select the Informatica installation directory.

By default, the server components are installed in the following location:

```
C:\Informatica installation directory\<version folder>
```

4. Click **Next**.
5. Click **Install** to begin the installation.
6. Click **Done** when the installation is complete.

The PowerCenter Integration Service and PowerCenter Repository Service components are installed.

## Installing the Server Component on UNIX

Install the PowerExchange for JD Edwards World server component on UNIX when the PowerCenter Integration Service or PowerCenter Repository Service runs on UNIX.

To install the PowerExchange for JD Edwards World server component on the UNIX platforms that support graphical user interface, perform the same steps that you use to install the server components on Windows.

To install the PowerExchange for JD Edwards World server component on the UNIX platforms that use the command line interface, perform the following steps:

1. Enter `sh install.sh` at the prompt.
2. Enter the path to the Informatica installation directory.

By default, the server components are installed in the following location:

```
<User Home Directory>/Informatica/<version folder>
```

The PowerCenter Integration Service and PowerCenter Repository Service components are installed.

# Registering the Plug-in

After you complete the installation, register the plug-in with the repository. If you are upgrading from a previous version, update the plug-in registration when you register the plug-in.

To register the plug-in, the repository must be running in exclusive mode. Use the Administrator tool or the `pmrep RegisterPlugin` command line program to register the plug-in. If you do not have the correct privileges to register the plug-in, contact the user who manages the PowerCenter Repository Service.

The plug-in file is an .xml file that defines the functionality of the adapter. When you install the server component, the installer copies the plug-in file to the following directory: <PowerCenter installation directory>/server/bin/plugin

The name of the plug-in file for PowerExchange for JD Edwards World is JDEWorld.xml.

## Registering the Plug-in from the Administrator Tool

Register a repository plug-in to add its functionality to the repository.

1. Run the PowerCenter Repository Service in exclusive mode.
2. In the **Navigators**, select the PowerCenter Repository Service to which you want to add the plug-in.
3. In the **Contents** panel, click the **Plug-ins** view.
4. In the **Actions** menu of the **Domain** tab, select **Register Plug-in**.
5. On the **Register Plug-in** page, click the **Browse** button to locate the plug-in file.
6. Enter your user name, password, and security domain.

The **Security Domain** field appears when the Informatica Domain contains an LDAP security domain.

7. Click **OK**.

The PowerCenter Repository Service registers the plug-in with the repository. The results of the registration operation appear in the activity log.

8. Run the PowerCenter Repository Service in normal mode.

## Registering the Plug-in from the Command Line Interface

You can use the pmrep RegisterPlugin command to register the plug-in from the command line interface.

1. Run the PowerCenter Repository Service in exclusive mode.
2. Run the pmrep Connect command to connect to the Repository Service using a user account with Administrator Repository privilege.

The RegisterPlugin command uses the following syntax:

```
pmrep connect -r <repository name> -d <domain_name> -n <domain user name> -x  
<domain_password>
```

3. Find <adaptername>.xml in the following directory:

```
$INFA_HOME\server\bin\Plugin
```

4. Run the pmrep RegisterPlugin command to update the repository.

The RegisterPlugin command uses the following syntax:

```
pmrep registerplugin -i <$INFA_HOME\server\bin\Plugin\<adaptername>.xml -e
```

## Registering the Plug-in Fails

Registering the plug-in fails when the plug-in ID (4012) and the vendor ID (4010) are the same.

Complete the following tasks to register the plug-in with the repository again.

- Unregister the plug-in that has the same plug-in ID and vendor ID as PowerExchange for JD Edwards World plug-in.
- Register the PowerExchange for JD Edwards World plug-in.

# Installing and Configuring PowerExchange

After you register the plug-in, install PowerExchange. If you are upgrading from a previous version, upgrade to the latest PowerExchange version that is compatible with PowerExchange for JD Edwards World.

1. Install PowerExchange on the AS/400 machine and on the machines where PowerExchange for JD Edwards World is installed.
2. Configure the dbmover.cfg file for the PowerExchange Listener on AS/400 and on all the machines where PowerExchange for JD Edwards World is installed.

## Configuring the CFG File on the AS/400 Machine

Configure the security and character data settings in the CFG file on the AS/400 machine.

1. Locate the CFG file in the Datalib library.
2. Open the CFG file using a text editor.
3. Replace the following entry:

```
SECURITY= (0, N)
```

with:

```
SECURITY= (1, N)
```

This entry makes it mandatory for you to provide a user name and password when you configure an application connection for PowerExchange for JD Edwards World.

4. Add the following entry:

```
DB2_BIN_AS_CHAR=Y
```

This entry converts the character data to CCSID 37.

## Configuring the dbmover.cfg File on the PowerExchange for JD Edwards World Machine

Configure the security and character data settings in the dbmover.cfg file on the machine where PowerExchange for JD Edwards World is installed.

1. Locate the dbmover.cfg file in the PowerExchange installation directory.
2. Open the dbmover.cfg file using a text editor.
3. Use the following syntax to add the name of the AS/400 machine to the dbmover.cfg file:

```
NODE=(<Name of AS/400 machine>,TCPIP, <IP address of AS/400 machine>,<Port Number>)
```

For example:

```
NODE=(AS400_ACME, TCPIP, 10.34.45.56, 3938)
```

## CHAPTER 3

# JD Edwards World Sources

This chapter includes the following topics:

- [JD Edwards World Sources Overview, 16](#)
- [JD Edwards World Source Definition, 16](#)
- [Updating a JD Edwards World Source Definition, 18](#)
- [Troubleshooting Source Definitions, 19](#)

## JD Edwards World Sources Overview

JD Edwards World source definitions represent metadata for the JD Edwards World system. When the PowerCenter Integration Service reads data from a JD Edwards World source, it converts the data based on the datatypes in the Application Source Qualifier associated with the source.

JD Edwards World source definitions are created by mapping the tables from the JD Edwards World libraries with which you establish a connection. When you import a source definition, you can filter the tables you want the Designer to display. After you import a source definition, you can edit the source definition.

## JD Edwards World Source Definition

When you connect to the JD Edwards World system to import a source definition, the Designer displays the tables that you can import. The Designer also displays the custom tables defined in the JD Edwards World system. The tables displayed in the Designer are grouped by system codes.

### Filtering Source Metadata

When you import a JD Edwards World source, you can specify a filter condition in the Import from JD Edwards World dialog box. The Import from JD Edwards World dialog box displays the tables that match the filter condition. You can specify a filter condition using an SQL expression or a Perl compatible regular expression syntax.



The following table describes the Perl-compatible regular expression syntax for characters that you can use in a filter:

Regular Expression	Definition
x	The character x.
\\	Backslash character. It introduces escaped constructs and quotes characters that otherwise would be interpreted as un-escaped constructs. For example, the expression \\ matches a single backslash and \{ matches a left brace.
.	Single character. Similar to _ in SQL.
.*	Zero or more characters. Similar to % in SQL.

The following table describes the Perl-compatible regular expression syntax for characters classes that you can use in a filter:

Regular Expression	Definition
[abc]	a, b, or c (simple class).
[^abc]	Any character except a, b, or c (negation).
[a-zA-Z]	a through z or A through Z, inclusive (range).

The following table describes the Perl-compatible regular expression syntax for greedy quantifiers that you can use in a filter:

Regular Expression	Definition
X?	X once or not at all.
X*	X zero or more times.
X+	X one or more times.
X{n}	X exactly n times.
X{n,}	X at least n times.
X{n,m}	X at least n but not more than m times.

The following table describes the Perl-compatible regular expression syntax for logical operators that you can use in a filter:

Regular Expression	Definition
XY	X followed by Y.
X Y	Either X or Y.
(X)	X, as a group of characters to be matched.

## Importing a JD Edwards World Source Definition

1. In the Source Analyzer, click Sources > Import from JD Edwards World.  
The Import from JD Edwards World dialog box appears.
2. From the AS/400 Server list, select the AS/400 Server machine where JD Edwards World is installed.
3. Enter a user name and a password.
4. In the JDE Library List, enter a comma-separated list of libraries that belong to the JD Edwards World environment to which you want to connect.
5. Optionally, enter a filter condition to view the tables that meet the condition.
6. From Apply Filter to, select the Table Name or Business Name option.
7. Click Connect.  
A list of tables appears in the Tables tab classified by system codes.
8. Select the tables you want to import, and click Add To Import List.  
To select all the tables belonging to an application, select the application, and click Select all. To clear the selected tables, click Select none.
9. To view the list of tables that you have selected to import, click View Import List.  
The Source Import List appears.
10. Optionally, to remove one or more tables from the Source Import List, select the tables and click Remove.  
The modified Source Import List appears.  
**Note:** If you change the libraries in the JDE Library List field, and then reconnect to JD Edwards World, the Designer prompts you to continue with the modified list. If you continue with the modified library list, all the entries are deleted from the Source Import List.
11. Click Close.
12. Click OK.

## Updating a JD Edwards World Source Definition

Manually edit the definition if you need to configure properties that you cannot import or if you want to make minor changes to the definition.

You can edit a JD Edwards World source definition. You can edit the datatype and the key type fields. Edit the JD Edwards World source definitions in the following situations:

- To import a source definition that contains Time datatype columns
- To retrieve data from two or more tables

**Note:** If the changes are significant, reimport the definition. This overwrites or renames the existing source definition.

## Working with the Time Datatype

When you import a source definition, the Designer imports columns of the Time datatype as Decimal or Numeric. To process the data correctly during a session, edit the source definition and manually change the datatype to Time.

**Note:** It is not mandatory that every column with the Decimal or Numeric datatype is of the Time datatype. Search for such columns before changing the datatype.

Edit the datatype of a column on the Columns tab of a source definition.

## Creating a User-Defined Join

To read data from two or more tables, join the JD Edwards World source definitions by defining the primary key-foreign key relationship between them. To define the relationship, define a primary key in one table and the corresponding foreign key in another table.

To define the key type, change the Key Type attribute to PRIMARY KEY and FOREIGN KEY on the Columns tab.

When you define primary and foreign keys, the Source Analyzer connects the foreign key field to the primary key field with an arrow.

## Troubleshooting Source Definitions

The Import from JD Edwards World option is disabled in the Sources menu.

The license for PowerExchange for JD Edwards World is not valid. Contact Informatica Global Customer Support.

The AS/400 Server list does not display any values.

The dbmover.cfg file is not configured.

## CHAPTER 4

# JD Edwards World Sessions

This chapter includes the following topics:

- [Configuring Application Connections, 20](#)
- [Configuring Sessions for JD Edwards World Sources, 21](#)
- [Troubleshooting Sessions, 21](#)

## Configuring Application Connections

Configure an application connection in the Workflow Manager to allow the PowerCenter Integration Service to extract data from JD Edwards World sources. When you configure a JD Edwards World application connection, you specify connection attributes to connect to JD Edwards World.

1. In the Workflow Manager, click Connections > Application.  
The Application Connection Browser dialog box appears.
2. Click New.
3. Select JDEdwardsWorld\_Connection from the Select Subtype list.
4. Click OK.  
The Connection Object Definition dialog box appears.
5. Enter the following information for the connection object:

Connection Attribute	Description
User Name	User name used to connect to JD Edwards World.
Password	Password to connect to JD Edwards World.
AS/400 Server	Name of the AS/400 Server machine on which JD Edwards World is installed.
JDE Library List	List of comma-separated library names belonging to an environment in JD Edwards World.

# Configuring Sessions for JD Edwards World Sources

The following table describes the session properties for JD Edwards World sources:

Session Property	Description
Select Distinct	Extracts distinct rows from a JD Edwards World source definition. Enter Yes or No.
Source Filter	Extracts rows from a JD Edwards World source that match the filter condition.
SQL Query	Overrides the default query with a custom query.
User Defined Join	Extracts data from more than one JD Edwards World table.

**Note:** You can view load statistics in the session log. The load summary in the Workflow Monitor does not display load statistics.

## Troubleshooting Sessions

A JD Edwards World session can fail due to connect, send, or receive timeout.

Configure the TIMEOUTS parameter in the dbmover.cfg file for the PowerExchange Listener on the AS/400 machine.

## CHAPTER 5

# Application Source Qualifier

This chapter includes the following topics:

- [Application Source Qualifier Overview, 22](#)
- [Specifying the Source Filter, 22](#)
- [Specifying the SQL Query, 23](#)
- [Specifying a User-Defined Join, 24](#)
- [Troubleshooting Application Source Qualifiers, 24](#)

## Application Source Qualifier Overview

In the Application Source Qualifier, configure the following properties:

- Number of Sorted Ports. Sort the extracted rows from a JD Edwards World source by specifying the number of ports on which data needs to be sorted.
- Select Distinct. Retrieve distinct rows from a JD Edwards World source.
- Source Filter. Retrieve the rows from a JD Edwards World source that match a condition.
- SQL Query. Override the default query generated by the mapping with a custom query.
- User Defined Join. Extract data from more than one JD Edwards World table.

Configure the Application Source Qualifier properties on the SQL Editor tab.

## Specifying the Source Filter

Specify a filter condition to extract rows from a JD Edwards World source that match the filter condition. Use the following syntax to enter a filter condition:

```
<Library Name>.<Table name>.<Column name> <operator> <literal>
```

The following table describes the variables in the filter condition syntax:

Variable	Description
<Library Name>	Name of the library belonging to a JD Edwards World environment.
<Table Name>	Name of the table imported from JD Edwards World.
<Column Name>	Name of a column in the imported table.

Include String values in single quotes. Use the AND and OR operators for multiple filter conditions.

For example:

```
PSWDTA73.F0101.ABAN8 < 100 AND  
PSWDTA73.F0101.ABALPH like 'Manager'
```

You can use the following operators in a filter condition:

```
< > <= >= <> = LIKE
```

To specify a source filter:

1. In the Mapping Designer, double-click the Application Source Qualifier.
2. Click the SQL Editor tab.
3. Click the Browse button by the Source Filter field.  
The SQL Editor appears. The SQL Editor shows the sources connected to the Application Source Qualifier in a tree view. Each source node displays the columns contained in the source.
4. Double-click a column to include the column in the filter condition.
5. Click OK.  
The filter condition appears in the source definition.

## Specifying the SQL Query

Specify a custom query to override the default query generated from a mapping.

1. In the Mapping Designer, double-click the Application Source Qualifier.
2. Click the SQL Editor tab.
3. Click the Browse button by the SQL Query field.  
The SQL Editor appears.
4. Enter the custom query in the SQL Editor. Use the following syntax to enter the query:  

```
select <Field name1>,<Field name2>,...from/on <Table name1>, <Table name2>,... [where  
<condition>]
```
5. Click OK. The custom query appears in the source definition.  
**Note:** If you enter the custom query, the PowerCenter Integration Service ignores the join condition entered in the User Defined Join field and the source filter entered in the Source Filter field.

## Rules and Guidelines for the SQL Query

Use the following rules and guidelines when you enter a query.

- Use the following format to enter field names:  
`<Library name>.<Table name>.<Field name>`
- Use the following format to enter table names:  
`<Library name>.<Table name>`
- The number of columns specified in the query must be the same as the number of outgoing links from the Application Source Qualifier.
- The datatype and precision of the columns specified in the query must match the datatype and precision of the corresponding fields in the Application Source Qualifier.
- Use table names instead of alias names.
- You cannot enter nested queries.

## Specifying a User-Defined Join

1. In the Mapping Designer, double-click the Application Source Qualifier.
2. Click the SQL Editor tab.
3. Click the Browse button by the User Defined Join field.  
The SQL Editor appears.
4. Enter a join condition in the SQL Editor.  
Use the following format to enter field names in the join condition:  
`<Library name>.<Table name>.<Field name>`  
Use the following format to enter table names in the join condition:  
`<Library name>.<Table name>`
5. Click OK. The join condition appears in the source definition.

## Troubleshooting Application Source Qualifiers

**The SQL Editor tab does not appear in the Application Source Qualifier.**

Verify that the Application Source Qualifier is connected to a JD Edwards World source. The SQL Editor tab does not appear for other types of sources.

**The SQL Editor does not list all the JD Edwards World sources in the mapping.**

Verify that the missing JD Edwards World sources are connected to the Application Source Qualifier.



## APPENDIX A

# JD Edwards World Datatype Reference

This appendix includes the following topic:

- [JD Edwards World and Transformation Datatypes, 25](#)

## JD Edwards World and Transformation Datatypes

PowerCenter uses the following datatypes in JD Edwards World mappings:

- JD Edwards World datatypes. JD Edwards World datatypes appear in the JD Edwards World definitions in a mapping.
- Transformation datatypes. Set of datatypes that appear in the transformations. They are internal datatypes based on ANSI SQL-92 generic datatypes, which the PowerCenter Integration Service uses to move data across platforms. They appear in all transformations in a mapping.

When the PowerCenter Integration Service reads source data, it converts the native datatypes to the comparable transformation datatypes before transforming the data.

The following table lists the JD Edwards World datatypes that PowerCenter supports and the corresponding transformation datatypes:

JD Edwards World Datatype	Range	Transformation Datatype	Range
Char	1 to 15,728,640 characters	String	1 to 104,857,600 characters
Date	Precision 6	Date/Time	Jan 1, 1753 AD to Dec 31, 9999 AD (precision to nanosecond)
Decimal	Range $-10^{31}+1$ to $10^{31}-1$ , Precision 1 to 31 digits	Decimal	Precision 1 to 28 digits, scale 0 to 28
Double	Precision 53, scale 0 to 53	Double	Precision 15
Float	Precision 24, scale 0 to 24	Double	Precision 15
Integer	Range -2,147,483,648 to 2,147,483,647, Precision 10	Integer	Range -2,147,483,648 to 2,147,483,647, Precision 10, scale 0

JD Edwards World Datatype	Range	Transformation Datatype	Range
Numeric	Range $-10^{31}+1$ to $10^{31}-1$ , Precision 1 to 31 digits	Decimal	Precision 1 to 28 digits, scale 0 to 28
Time	Precision 6	Date/Time	Jan 1, 1753 AD to Dec 31, 9999 AD (precision to nanosecond)

When you import a source definition, the Designer imports columns of the Time datatype as Decimal or Numeric. To process the data correctly during a session, edit the source definition and manually change the datatype to Time.

## Unsupported JD Edwards World Datatypes

PowerExchange for JD Edwards World does not support the BLOB JD Edwards World datatype.

## BLOB Datatype

On the AS/400 machine, when you import a source definition, the Designer imports columns with BLOB datatype as Char. However, when you run a JD Edwards World session, the session still fails because PowerExchange for JD Edwards World does not support the BLOB datatype. The PowerCenter Integration Service writes the following error message in the session log:

```
PowerExchange failed to prepare the statement.
```

# APPENDIX B

## Error Messages

This appendix includes the following topic:

- [Designer Error Messages, 27](#)

## Designer Error Messages

The Designer displays messages in boxes, in the output window, and in the status bar depending on the task you perform.

### **Enter JDE Library List.**

Explanation: The JD Edwards libraries are not specified in the JDE Library List field.

User Response: Enter a comma-separated list of library names in the JDE Library List field.

### **Enter user name.**

User Response: Enter a user name. This user must have access to the libraries specified in the JDE Library List.

### **Illegal regular expression specified in the filter condition.**

Explanation: The regular expression specified in the filter condition is not PERL compatible.

User Response: Enter a PERL compatible regular expression.

### **Invalid user name or password.**

Explanation: Either the user name or password or both are incorrect.

User Response: Verify that the user name and password are correct.

-or-

Explanation: The PowerExchange license is not valid.

User Response: Provide a valid license key.

### **PowerExchange failed to allocate memory to the connection handle.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**PowerExchange failed to allocate memory to the environment handle.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**PowerExchange failed to allocate memory to the statement handle.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**PowerExchange failed to bind a column.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**PowerExchange failed to connect to JD Edwards World.**

Explanation: PowerExchange is not installed.

User Response: Verify that PowerExchange is installed on the AS/400 machine.

-or-

Explanation: The dbmover.cfg and AS/400 CFG files are not configured for the PowerExchange Listener on the AS/400 machine.

User Response: Verify that the dbmover.cfg and AS/400 CFG files are configured for the PowerExchange Listener on the AS/400 machine.

-or-

Explanation: The PowerExchange license key specified is not valid.

User Response: Provide a valid license key.

-or-

Explanation: The network is down.

User Response: Verify that the network is running.

**PowerExchange failed to execute the SQL query.**

Explanation: The specified SQL query is incorrect.

User Response: Verify that the specified SQL query is correct.

-or-

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**PowerExchange failed to fetch AS/400 Server information.**

Explanation: PowerExchange is not installed.

User Response: Verify that PowerExchange is installed on the AS/400 machine.

-or-

Explanation: The dbmover.cfg and AS/400 CFG files are not configured for the PowerExchange Listener on the AS/400 machine.

User Response: Verify that the dbmover.cfg and AS/400 CFG files are configured for the PowerExchange Listener on the AS/400 machine.

-or-

Explanation: The PowerExchange license key specified is not valid.

User Response: Provide a valid license key.

-or-

Explanation: The network is down.

User Response: Verify that the network is running.

**PowerExchange failed to fetch column information from JD Edwards World.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**PowerExchange failed to fetch table information from a specified library.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**PowerExchange failed to prepare the statement.**

Explanation: The PowerExchange Listener on the AS/400 machine is not running.

User Response: Start the PowerExchange Listener on the AS/400 machine.

-or-

Explanation: The network is down.

User Response: Verify that the network is running.

-or-

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**PowerExchange failed to set connection options.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**PowerExchange failed to set statement attributes.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**The Designer failed to create the field object.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**The Designer failed to create the source definition.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**The Designer failed to populate the DSN list in the AS/400 Server field.**

Explanation: PowerExchange is not installed on the AS/400 machine.

User Response: Verify that PowerExchange is installed on the AS/400 machine.

-or-

Explanation: The dbmover.cfg file is not configured for the PowerExchange Listener on the AS/400 machine.

User Response: Verify that the dbmover.cfg file is configured for the PowerExchange Listener on the AS/400 machine.

-or-

Explanation: The network is down.

User Response: Verify that the network is running.

**The Designer failed to set the metadata extensions in the repository.**

Explanation: Internal error.

User Response: Contact Informatica Global Customer Support.

**Verify the JDE Library List.**

Explanation: The required metadata tables could not be found in the specified list of libraries.

User Response: Enter a list of library names containing the metadata tables, F0005, F9801, F9201, and F9756.

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